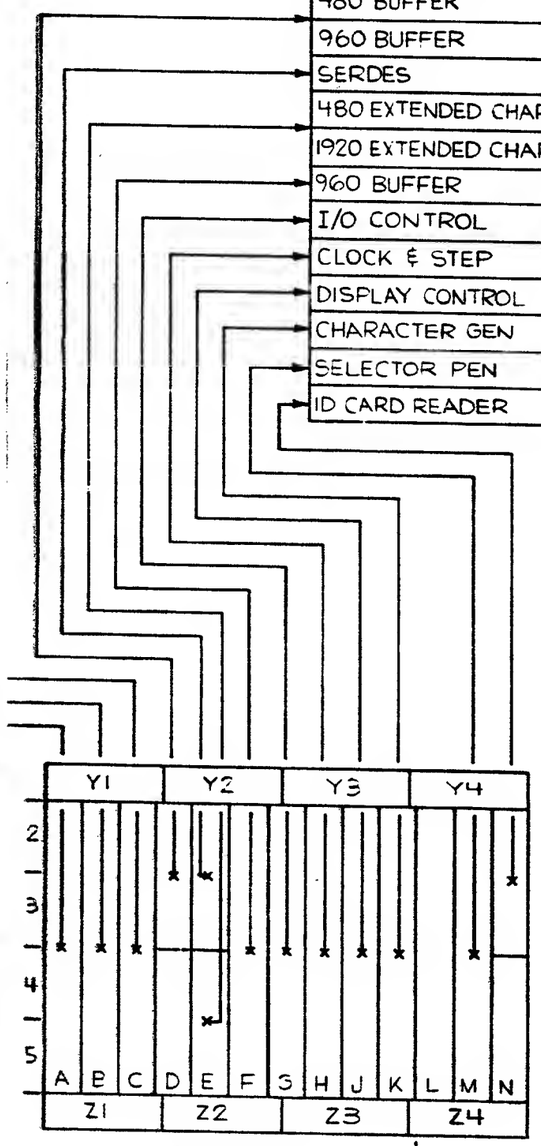
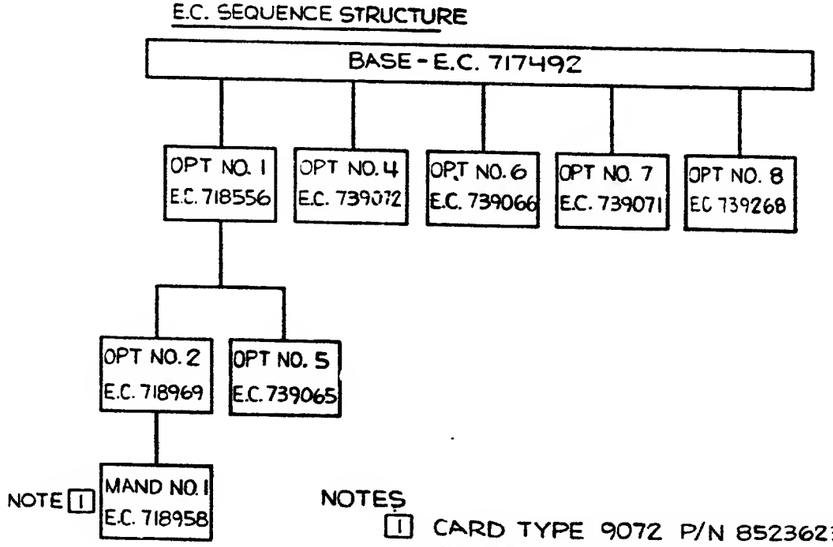
CARD DESCRIPTION	WHERE USED	CARD TYPE	LOGIC PAGE GROUP	CARD LOC	CARD PART NUMBERS: BASE E.C. 717492	OPT #1 E.C. 718556	MAND NO.1 (CARD READER FEATURE ONLY) E.C. 718958	OPT NO.2 E.C. 718969	OPT NO.4 E.C. 739072	OPT NO.5 E.C. 739065	OPT NO.6 E.C. 739066	OPT NO.7 E.C. 739071	OPT NO.8 E.C. 739268	OPT NO.	PRODUCTION PRACTICE
KEYBOARD CONTROL #2	KEYBOARD ADAPTER	9072	KMIXX	A2 *	8522128	8522001	NOTE [1]	8523616	—	—	—	—	—		8527296
KEYBOARD CONTROL #1	KEYBOARD ADAPTER	9069	KMOXX	B2 *	8521178	8522852	—	—	—	8524282	—	—	—		8524282
I/O GATING & PARITY	ALL MACHINES	9066	MGOXX	C2	8521992	←	—	—	—	—	—	8523648	—		8523648
480 BUFFER	MOD 1 ONLY	9057	MBXXX	D2	8521862	←	—	—	—	—	—	—	—		8521862
960 BUFFER	MOD 2 ONLY	9065			8521863	←	—	—	—	—	—	—	—		8521863
SERDES	ALL MACHINES	L514	KAIXX	E2 *	8522013	←	—	—	—	—	—	—	—		8527302
480 EXTENDED CHAR	MOD 1 EXT CHAR	2231	MCXXX	E4	8521437	←	—	—	—	—	—	—	8524314		8524314
1920 EXTENDED CHAR	MOD 2 EXT CHAR	2227			8521436	←	—	—	—	—	—	—	8524301		8524301
960 BUFFER	MOD 2 ONLY	9065	MBXXX	F2	8521863	←	—	—	—	—	—	—	—		8521863
I/O CONTROL	ALL MACHINES	9068	KAOXX	G2 *	8522109	8522151	←	—	8523664	—	—	—	—		8523664
CLOCK & STEP	ALL MACHINES	9071	KFOXX	H2 *	8521981	8522825	←	—	—	—	8523649	—	—		8524604
DISPLAY CONTROL	ALL MACHINES	9067	KFIXX	J2 *	8522014	8522836	←	—	—	—	—	—	—		8522836
CHARACTER GEN	SEE PAGE ZZ101		MCXXX	K2 *		—	—	—	—	—	—	—	*		*
SELECTOR PEN	EXTENDED BOARD	9088	KTOXX	M2	8521505	←	—	—	—	—	—	—	—		8521505
ID CARD READER	EXTENDED BOARD	2229	KROXX	N2	8522108	←	8523257	←	—	—	—	—	—		8523257

* REFER TO "ZZ" PAGES FOR INTERCHANGEABLE CARDS FOR FEATURES AND RPQ'S



E.C. SEQUENCE STRUCTURE



EXPLANATION OF LOGIC USE

THIS SYSTEMS DIAGRAMS VOLUME CONTAINS ALL THE LOGIC REQUIRED FOR ANY FEATURE COMBINATION OF 3277 DISPLAYS. THE VOLUME IS BROKEN DOWN INTO THE LOGIC GROUPS SHOWN ABOVE. THE WHITE PAGES ARE BASE MOD 2. IF A CARD READER OR SELECTOR PEN IS IN THE MACHINE, THE BLUE KR & KT PAGES SHOULD BE CONSIDERED PART OF THE LOGIC. IF THE MACHINE IS A MOD 1, THE YELLOW MB PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MB PAGES. IF THE MACHINE HAS AN EXTENDED CHARACTER SET, THE GREEN MC PAGES SHOULD BE CONSIDERED A REPLACEMENT FOR THE WHITE MC PAGES.

BOARD PART NO.	BOARD DESCRIPTION
2625204	BASE W/O FEAT EXT
2625206	BASE WITH FEAT EXT
2625208	EXT CHAR SET W/O FEAT
2625210	EXT CHAR SET WITH FEAT

NOTES

[1] CARD TYPE 9072 P/N 8523623 (FOR W.T. ONLY) OR EC 718969 INSTALLED

SEE EC HISTORY		DRAWING TITLE
JUL74	740382	3277 SOCKET LIST
JAN75	741246	MACH 3277
MAR75	741258	PART NO 1832870
D		CLASSIFICATION

IBM CORP

AA115

COMPONENT & CONNECTOR LOCATIONS

TITLE	MOD 1	MOD 2
ANALOG CARD	01B/A2	01C/A1
AUDIBLE ALARM	01C/DS1	01C/DS1
LVPS	01B/PS1	01D/PS1
HVPS	01B/PS2	01C/PS1
-12V REG CARD	01B/VR1	01D/VR1
VOLTAGE DIST CARD	01C/Z1	01C/TB1
SECURITY KEY LOCK	01C/S1	01C/S1
CONTROL UNIT I/O CONN	01S/J4	01S/J4
KEYBOARD CONN	01S/J1	01S/J1
CARD READER CONN	01S/J2	01S/J2

POWER DISTRIBUTION

SIGNAL	TERMINAL MOD 1 01A/TB1	TERMINAL MOD 2 01C/TB1	I/O CONN 01S/J1	KYBD PIN - KB1 MICRO	KYBD PIN - KB1 CALICO
+8V	2	23	24	W, V	D03
			25	AUDIBLE FDBK	
-12V	4	19	13	Z	D02
DC RTN	6	22	11	X, Y	D08
			12	AUDIBLE FDBK	

ANALOG CARD

SIGNAL		BD CONN 01A-A1(Z3)	I/O CONN MOD 1	I/O CONN MOD 2	PIN
+VIDEO DATA OUT		H6C04	01B/A2	01C/A1	P4-12
+HI INTENSITY		J6E02			P4-15
+HORIZ SYNC		J6D04			P4-14
-BUMP DISPLAY		H6E04			P4-8
+VERTICAL RETRACE		J6B04			P4-10
-SOUND ALARM	TO ANAL CD	K6A04			P4-16
	TO ALARM				P4-19
+SWITCHED 5V	IN	H6B02			P4-11
	OUT				P4-20
-POR		K6B02			P4-21
-12V		J6C04			P3-5
+34V		K6B04			P3-6
+8V		J6A04			P3-4
+RELAY COIL		J6E04	01C/ZP1	01C/TB1	3
-SECURITY KEY		H6A02	01C/S1		—
-SECURITY KEY GND		J6B02			—
		H6C02			—

KEYBOARD WITH & WITHOUT CARD READER

SIGNAL	BD CONN - 01A - A1 KYBD (Z1)	BD CONN - 01A - A1 CD RDR (Z4)	I/O CONN 01S/J1	KYBD PIN - KB1 MICRO	KYBD PIN - KB1 CALICO
+KYBD BIT 0	A6D04	L6B04	1	D	B05
+KYBD BIT 1	A6E04	L6C04	2	E	B06
+KYBD BIT 2	B6A04	L6D04	3	F	D13
+KYBD BIT 3	B6B04	L6E04	4	H	B08
+KYBD BIT 4	B6C04	M6A04	5	J	B09
+KYBD BIT 5	B6D04	M6B04	18	K	B10
+KYBD BIT 6	B6E04	M6C04	6	L	B13
+KYBD BIT 7	C6A04	M6D04	7	M	B12
+KYBD PARITY BIT	C6B04	M6E04	8	N	B04
+ALPHA SHIFT	A6D02	L6B02	14	T	D05
-KYBD STROBE	C6B02	M6E02	9	R	B02
	C6C04	N6A04			
+NUMERIC SHIFT	B6B02	L6E02	16	S	D06
-KYBD RESET	C6D04	N6B04	22	C	D12
-POR CALICO KYBD	C6A02	M6D02	19	SPARE	SPARE
+DE UP SHIFT	B6A02	L6D02	15	U	D04
+FF ENABLE	B6C02	M6A02	17	P	D11
+KYBD TUNE	C6E02	———	10	AUD FDBK SIGNAL	
+CHAR RDY DEC	———	N6C02		———	D10

COAX

SIGNAL	BD CONN PIN
DATA	01A-A1E2D07
GND	01A-A1E2D08

LIGHT PEN CONNECTOR

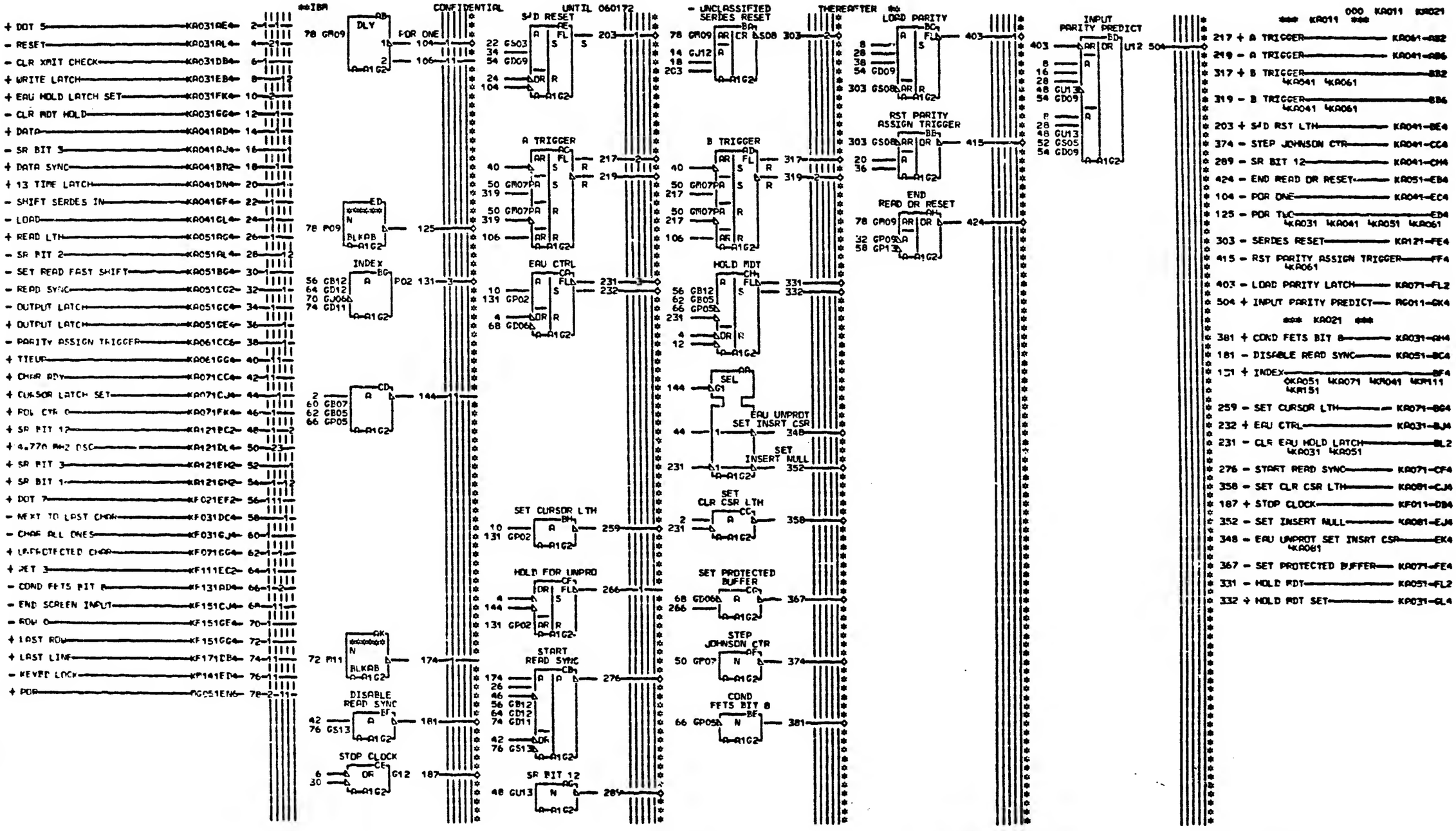
SIGNAL	BD SIDE 01A-A1	LIGHT PEN SIDE
-LP SW OPEN	M1C13	B05
	N1B11	
-LP SW CLOSED	L1B11	B08
	L1E13	
-LP STRIKE (SIGNAL)	L1B13	B03
+12V LP	L1C13	B02
-6V LP	M1D13	B09
GND	M1B13	B07
	M1A11	

SEE EC HISTORY		DRAWING TITLE
JUL 74	740382	3277-MOD 1 & 2 CONN & CABLE REF GUIDE
JAN 75	74124e	MACH 3277
MAR 75	741258	PART NO 1832870
		CLASSIFICATION

D

IBM CORP

A A I I 5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+ DOT 5 KA031AE4 2
- RESET KA031AL4 4
- CLR XMIT CHECK KA031DB4 6
+ WRITE LATCH KA031EB4 8
+ EAU HOLD LATCH SET KA031FK4 10
- CLR MDT HOLD KA031GG4 12
+ DATA KA041AD4 14
- SR BIT 3 KA041AJ4 16
+ DATA SYNC KA041BH2 18
+ 13 TIME LATCH KA041DN4 20
- SHIFT SERDES IN KA041GF4 22
- LOAD KA041GL4 24
+ READ LTH KA051AG4 26
- SR BIT 2 KA051AL4 28
- SET READ FAST SHIFT KA051BG4 30
- READ SYNC KA051CG2 32
- OUTPUT LATCH KA051GC4 34
+ OUTPUT LATCH KA051GE4 36
- PARITY ASSIGN TRIGGER KA061CC6 38
+ TIEUP KA061GG4 40
+ CHAR RDY KA071CC4 42
+ CURSOR LATCH SET KA071CJ4 44
+ ROL CTR 0 KA071FK4 46
+ SR BIT 12 KA121BC2 48
+ 4.770 MHZ OSC KA121DL4 50
+ SR BIT 3 KA121EH2 52
+ SR BIT 1 KA121GH2 54
+ DOT 7 KF021EF2 56
- NEXT TO LAST CHAR KF031DC4 58
- CHAR ALL ONES KF031GJ4 60
+ UNPROTECTED CHAR KF071GG4 62
+ JET 3 KF111EC2 64
- COND FETS BIT 8 KF131AD4 66
- END SCREEN INPUT KF151CJ4 68
- ROW 0 KF151GF4 70
+ LAST ROW KF151GG4 72
+ LAST LINE KF171DB4 74
- NEVER LOCK KP141ED4 76
+ POR KG051EN4 78
78 GR09 DLY AB 1 2 FOR ONE 104 106
78 P09 ED N BLKAB 125
INDEX BG
56 GB12
64 GD12
70 GJ06
74 GD11
P02 131
2 CD A
60 GB07
62 GB05
66 GP05 144
72 M11 GK N BLKAB 174
DISABLE READ SYNC EF
42
76 GS13 181
STOP CLOCK CE
6 OR
30 G12 187
S/D RESET AE
22 GS03
34
54 GD09
24 OR R
104 203
A TRIGGER AC
40 AR FL S R 217
50 GR07PA S R 219
319
50 GR07PA R
319
106 AR R
EAU CTRL CA
10 A FL
131 GP02 S 231
4 OR R 232
68 GD06
SET CURSOR LTH BH
10 A
131 GP02 259
HOLD FOR UNPRO CF
4 DR FLD
144 S 266
131 GP02 AR R
START READ SYNC CB
174 A P
26 276
46
56 GB12
64 GD12
74 GD11
42 OR
76 GS13
SR BIT 12 AG
48 GU13 N 285
78 GR09 AR CR BS08 303
14 GJ12 A
18
203
B TRIGGER AD
40 AR FL S R 317
50 GR07PA S R 319
217
50 GR07PA R
217
106 AR R
HOLD MDT CH
56 GB12 A FLD
62 GB05 S 331
66 GP05 332
231
4 OR R
12
SEL AA
144 G1
EAU UNPROT SET INSRT CSR
44 1 348
SET INSERT NULL
231 1 352
SET CLR CSR LTH CC
2 A 358
231
SET PROTECTED BUFFER CG
68 GD06 A 367
266
STEP JOHNSON CTR CF
50 GP07 N 374
COND FETS BIT 8 BF
66 GP05 N 381
LOAD PARITY BC
8 A FL 403
28 S
38
54 GD09
303 GS08 AR R
RST PARITY ASSIGN TRIGGER BB
303 GS08 AR OR 415
20 A
36
END READ OR RESET CH
78 GR09 AR OR 424
32 GP09 A
58 GP13
INPUT PARITY PREDICT BD
403 AR OR U12 504
8 A
16
28
48 GU13
54 GD09
R A
28
48 GU13
52 GS05
54 GD09
*** KA011 *** 000 KA011 KA021
217 + A TRIGGER KA061-BB2
249 - A TRIGGER KA041-BB6
317 + B TRIGGER 4KA041 4KA061 BB2
319 - B TRIGGER 4KA041 4KA061 BB6
203 + S/D RST LTH KA041-BE4
374 - STEP JOHNSON CTR KA041-CC4
289 - SR BIT 12 KA041-CH4
424 - END READ OR RESET KA051-EB4
104 - POR DNE KA041-EC4
125 - POR TMO 4KA031 4KA041 4KA051 4KA061 ED4
303 - SERDES RESET KA121-FE4
415 - RST PARITY ASSIGN TRIGGER 4KA061 FF4
403 - LOAD PARITY LATCH KA071-FL2
504 + INPUT PARITY PREDICT AG011-GK4
*** KA021 ***
381 + COND FETS BIT 8 KA031-GH4
181 - DISABLE READ SYNC KA051-BC4
171 + INDEX 0KA051 4KA071 4KA041 4KA111 4KA151 BF4
259 - SET CURSOR LTH KA071-BG4
232 + EAU CTRL KA031-BJ4
231 - CLR EAU HOLD LATCH 4KA031 4KA051 BL2
276 - START READ SYNC KA071-CF4
358 - SET CLR CSR LTH KA081-CJ4
187 + STOP CLOCK KF011-DB4
352 - SET INSERT NULL KA081-EJ4
348 - EAU UNPROT SET INSRT CSR 4KA081 EK4
367 - SET PROTECTED BUFFER KA071-FE4
331 - HOLD MDT KA051-FL2
332 + HOLD MDT SET KP031-GL4
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A-A1G2 9068
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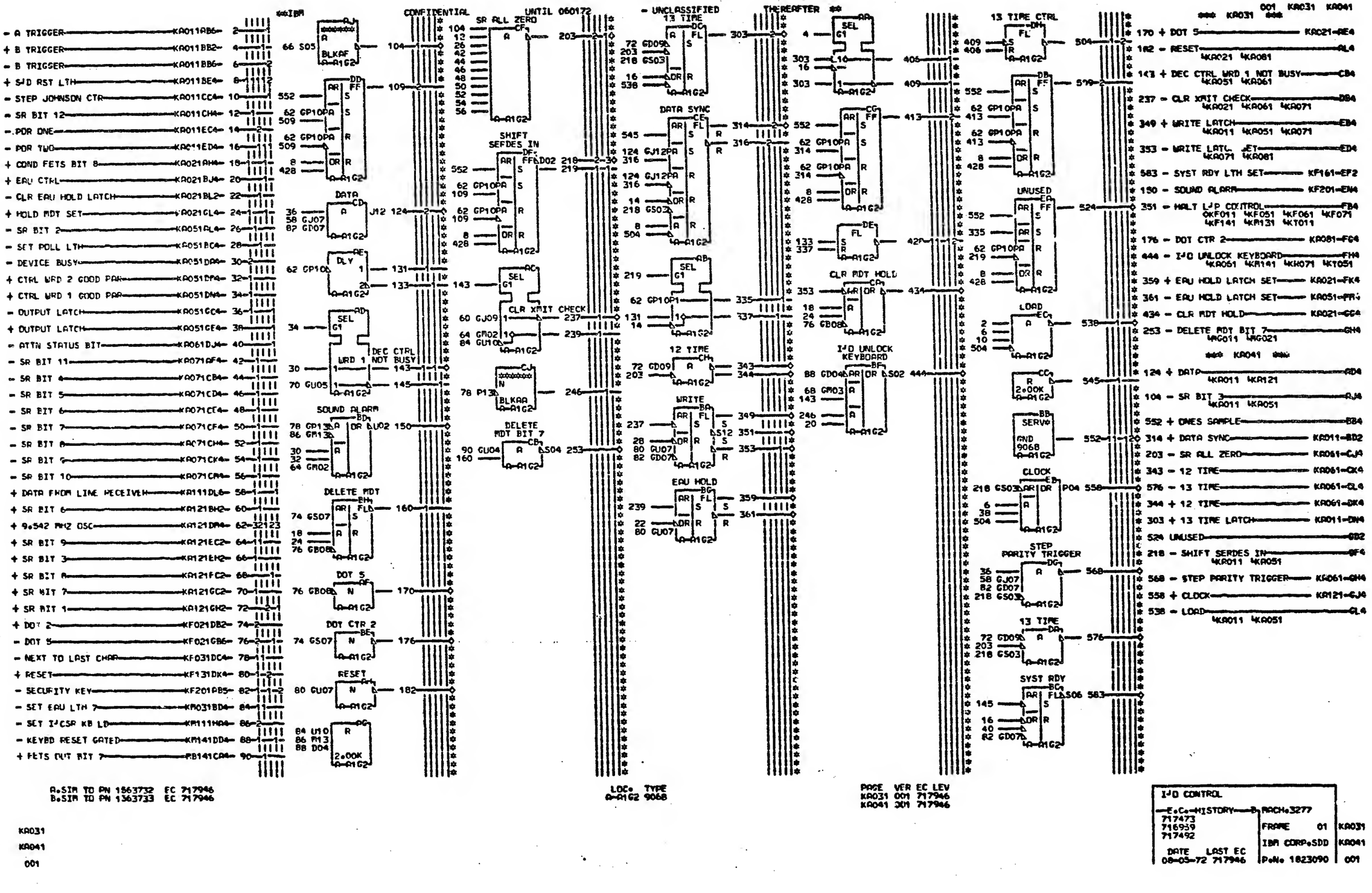
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CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
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- A TRIGGER KA011AB6
+ B TRIGGER KA011BB2
- B TRIGGER KA011BB6
+ S/D RST LTH KA011BE4
- STEP JOHNSON CTR KA011CC4
- SR BIT 12 KA011CH4
- PDR ONE KA011EC4
- PDR TWO KA011ED4
+ COND FETS BIT 8 KA021AH4
+ EAU CTRL KA021BJ4
- CLR EAU HOLD LATCH KA021BL2
+ HOLD MDT SET KA021CL4
- SR BIT 2 KA051AL4
- SET POLL LTH KA051BC4
- DEVICE BUSY KA051DA4
+ CTRL WRD 2 GOOD PAR KA051DE4
+ CTRL WRD 1 GOOD PAR KA051DN4
- OUTPUT LATCH KA051GC4
+ OUTPUT LATCH KA051GE4
- ATTN STATUS BIT KA061DJ4
- SR BIT 11 KA071AF4
- SR BIT 4 KA071CB4
- SR BIT 5 KA071CD4
- SR BIT 6 KA071CE4
- SR BIT 7 KA071CF4
- SR BIT 8 KA071CH4
- SR BIT 9 KA071CK4
- SR BIT 10 KA071CM4
+ DATA FROM LINE RECEIVER KA111DL6
+ SR BIT 6 KA121BH2
+ 9.542 MHZ OSC KA121DM4
+ SR BIT 9 KA121EC2
+ SR BIT 3 KA121EH2
+ SR BIT 8 KA121FC2
+ SR BIT 7 KA121GC2
+ SR BIT 1 KA121GH2
+ DOT 2 KF021DB2
- DOT 5 KF021GB6
- NEXT TO LAST CHAR KF031DC4
+ RESET KF131DK4
- SECURITY KEY KF201AB5
- SET EAU LTH 7 KM031BD4
- SET I/O CSR KB LD KM111MA4
- KEYBD RESET GATED KM141DD4
+ FETS OUT BIT 7 PB141CA4
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KA041
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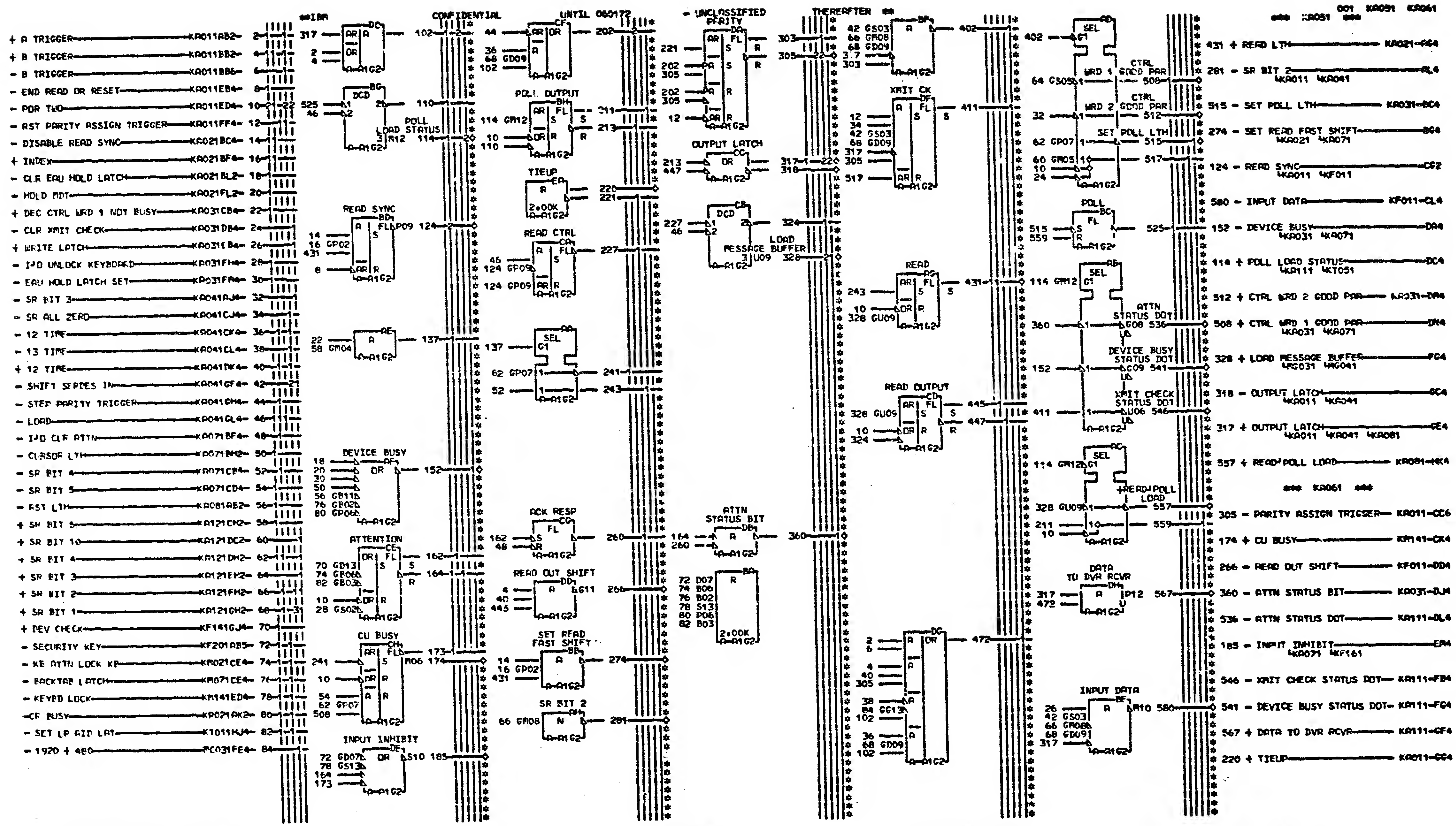

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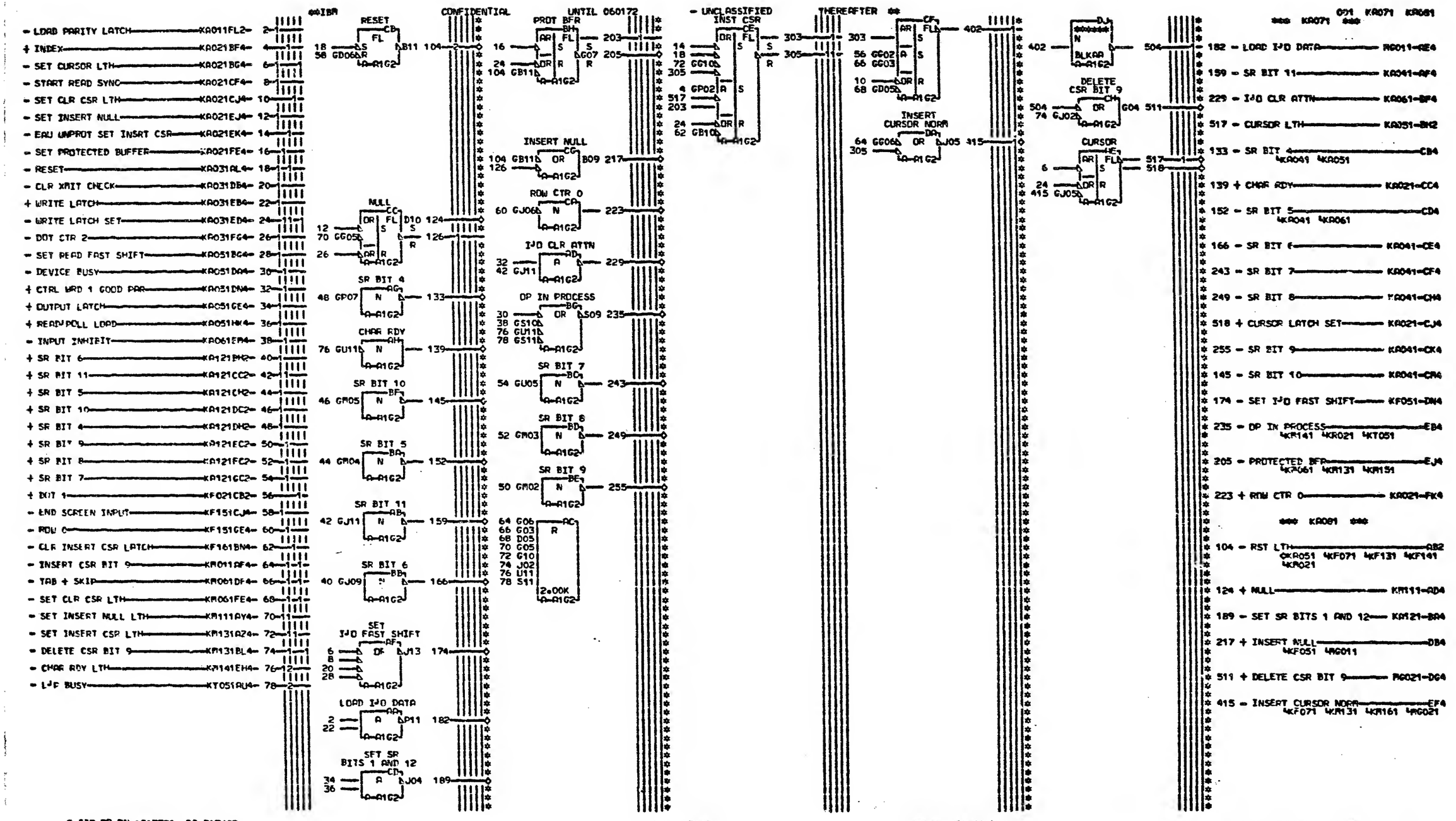
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CONFIDENTIAL
UNTIL 060172
THEREAFTER
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RESET
PROT BFR
INST CSR
INSERT NULL
ROW CTR 0
INSERT CURSOR NORM
DELETE CSR BIT 9
CURSOR
NULL
I/O CLR ATTN
SR BIT 4
DP IN PROCESS
CHAR RDY
SR BIT 7
SR BIT 10
SR BIT 8
SR BIT 5
SR BIT 9
SR BIT 11
SR BIT 6
SET I/O FAST SHIFT
LOAD I/O DATA
SET SR BITS 1 AND 12
- LOAD PARITY LATCH
+ INDEX
- SET CURSOR LTH
- START READ SYNC
- SET CLR CSR LTH
- SET INSERT NULL
- EAU UNPROT SET INSRT CSR
- SET PROTECTED BUFFER
- RESET
- CLR XMIT CHECK
+ WRITE LATCH
- WRITE LATCH SET
- DOT CTR 2
- SET READ FAST SHIFT
- DEVICE BUSY
+ CTRL WRD 1 GOOD PAR
+ OUTPUT LATCH
+ READ/POLL LOOP
- INPUT INHIBIT
+ SR BIT 6
+ SR BIT 11
+ SR BIT 5
+ SR BIT 10
+ SR BIT 4
+ SR BIT 9
+ SR BIT 8
+ SR BIT 7
+ BIT 1
- END SCREEN INPUT
- ROW 0
- CLR INSERT CSR LATCH
- INSERT CSR BIT 9
- TAB + SKIP
- SET CLR CSR LTH
- SET INSERT NULL LTH
- SET INSERT CSR LTH
- DELETE CSR BIT 9
- CHAR RDY LTH
- I/O BUSY
KA011FL2
KA021BF4
KA021BG4
KA021CF4
KA021CJ4
KA021EJ4
KA021EK4
KA021FE4
KA031AL4
KA031DB4
KA031EB4
KA031ED4
KA031FG4
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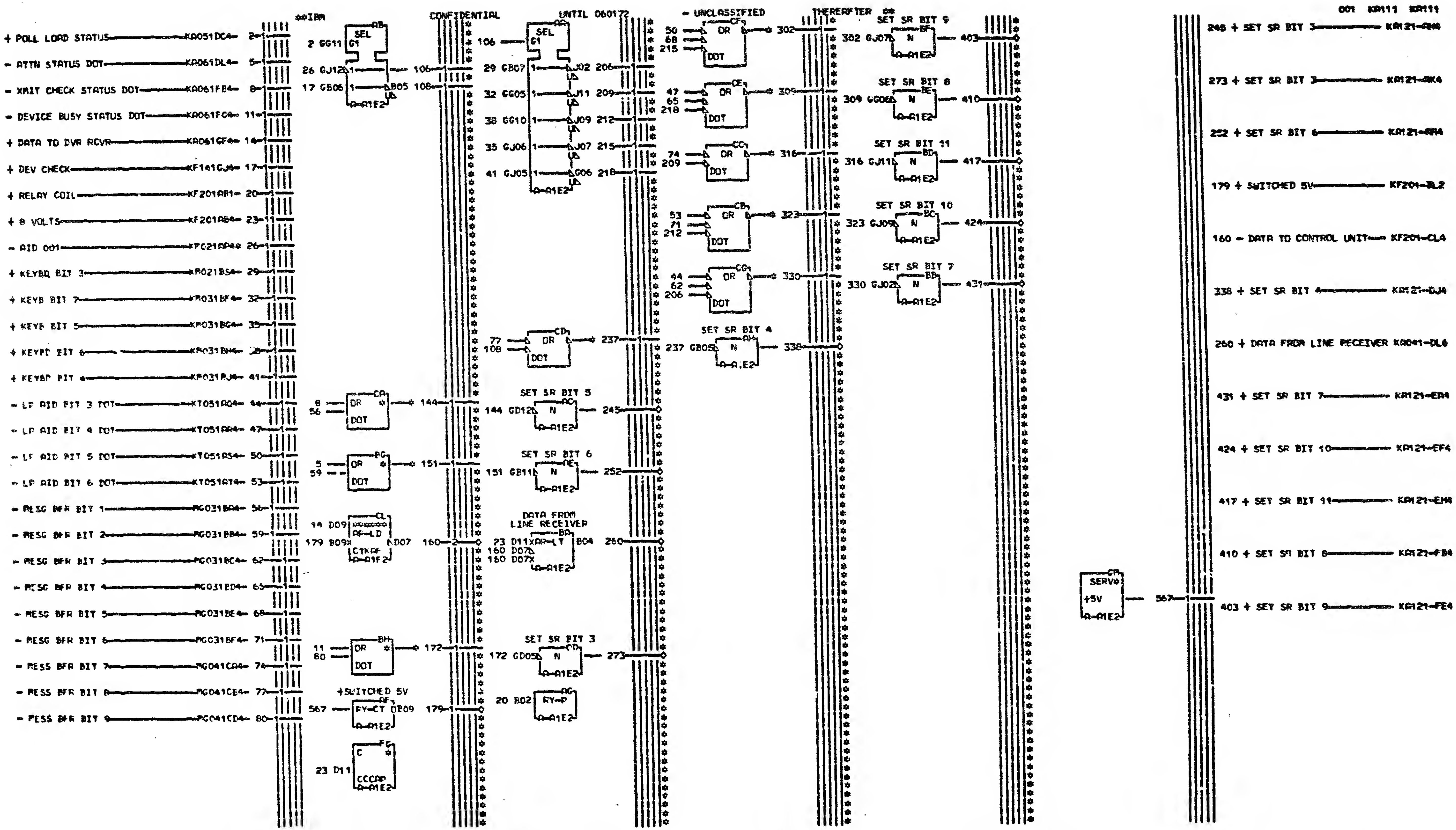

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26	RESISTOR A-A1E2J12	302	RESISTOR A-A1E2J07
144	RESISTOR A-A1E2D12	309	RESISTOR A-A1E2G06
151	RESISTOR A-A1E2E11	316	RESISTOR A-A1E2J11
172	RESISTOR A-A1E2D05	323	RESISTOR A-A1E2J09
237	RESISTOR	330	RESISTOR

A-A1E2B05

A-A1E2J02

LOC. TYPE A-A1E2 L514

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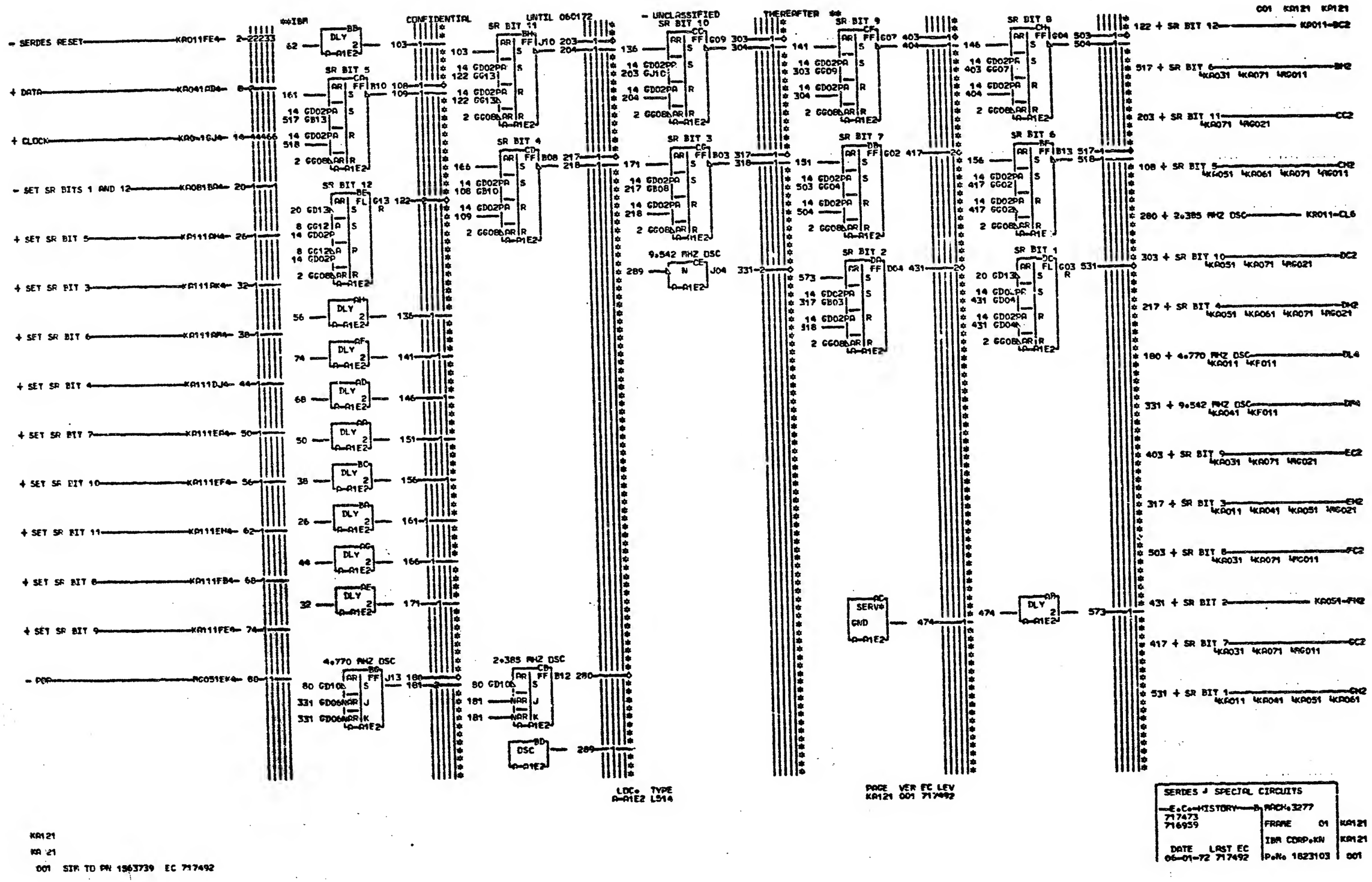
**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
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+ DATA
+ CLOCK
- SET SR BITS 1 AND 12
+ SET SR BIT 5
+ SET SR BIT 3
+ SET SR BIT 6
+ SET SR BIT 4
+ SET SR BIT 7
+ SET SR BIT 10
+ SET SR BIT 11
+ SET SR BIT 8
+ SET SR BIT 9
- PDR
SR BIT 5
SR BIT 12
SR BIT 11
SR BIT 4
SR BIT 10
SR BIT 3
SR BIT 9
SR BIT 7
SR BIT 2
SR BIT 8
SR BIT 6
SR BIT 1
4.770 MHZ OSC
2.385 MHZ OSC
9.542 MHZ OSC
DLY
SERV*
GND
+ SR BIT 12
+ SR BIT 6
+ SR BIT 11
+ SR BIT 5
+ 2.385 MHZ OSC
+ SR BIT 10
+ SR BIT 4
+ 4.770 MHZ OSC
+ 9.542 MHZ OSC
+ SR BIT 9
+ SR BIT 3
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+ SR BIT 1
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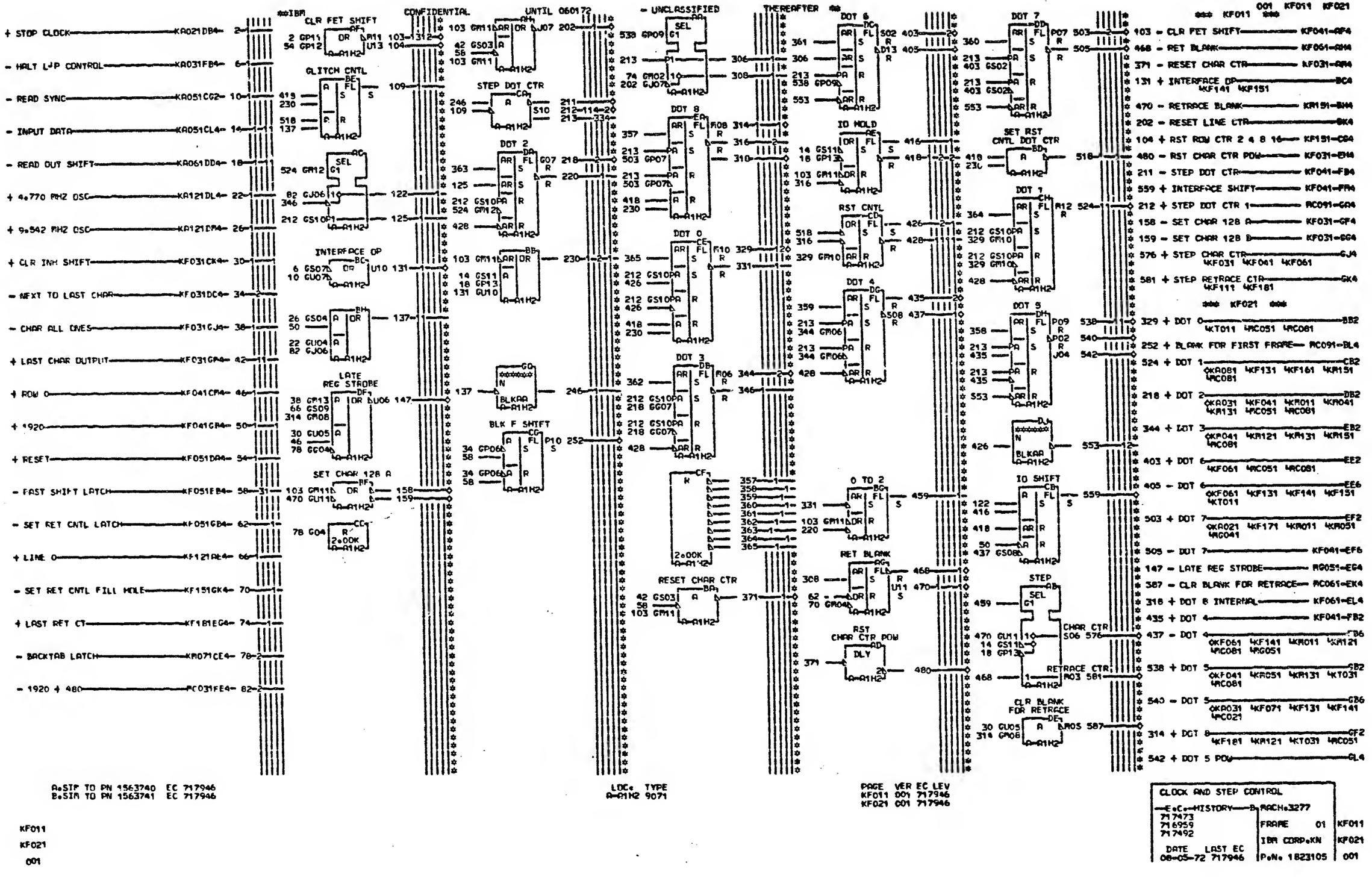
001
SIM TD PN 1963739 EC 717492



A.SIM TO PN 1563740 EC 717946
B.SIM TO PN 1563741 EC 717946

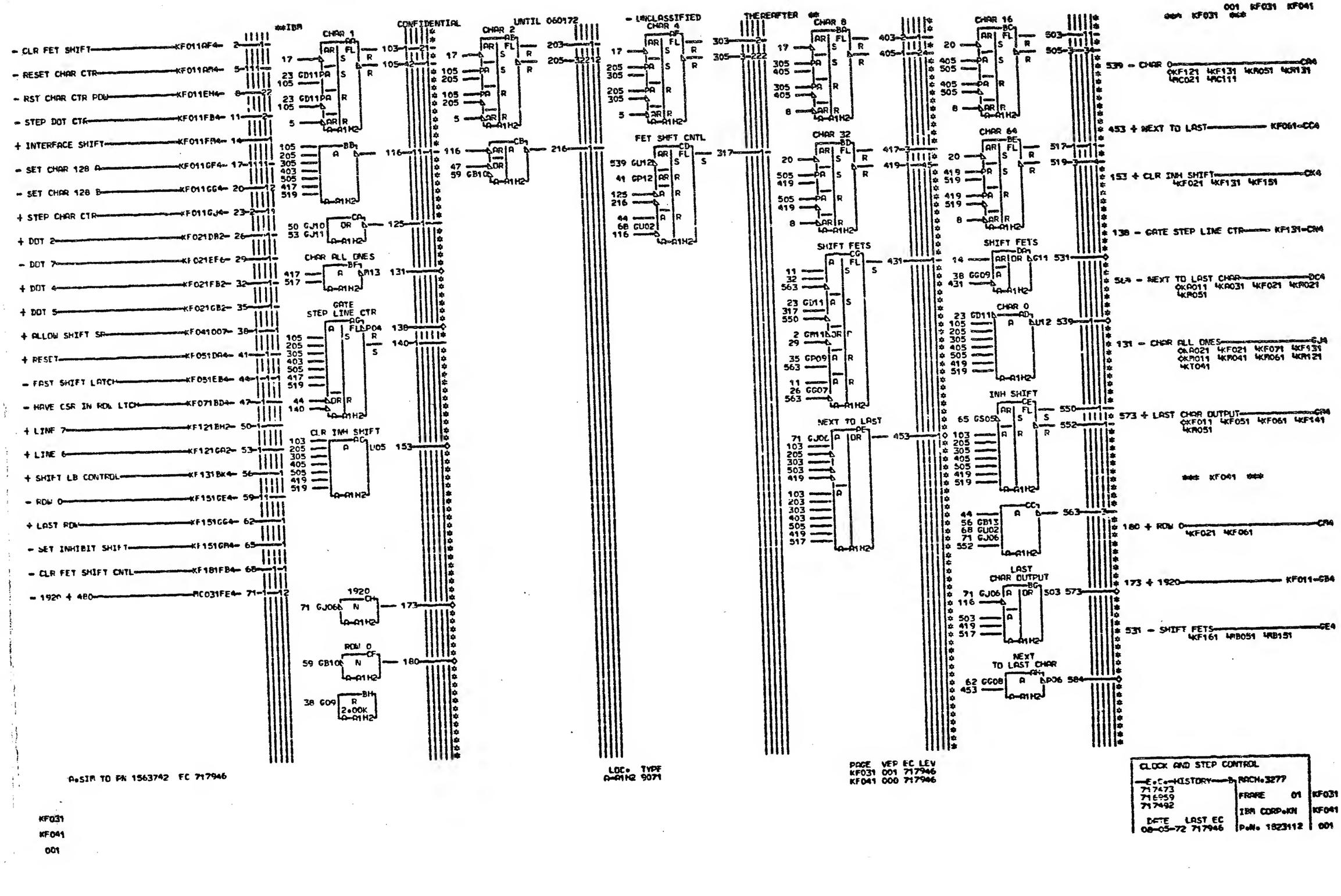
LOC. TYPE
A-A1H2 9071

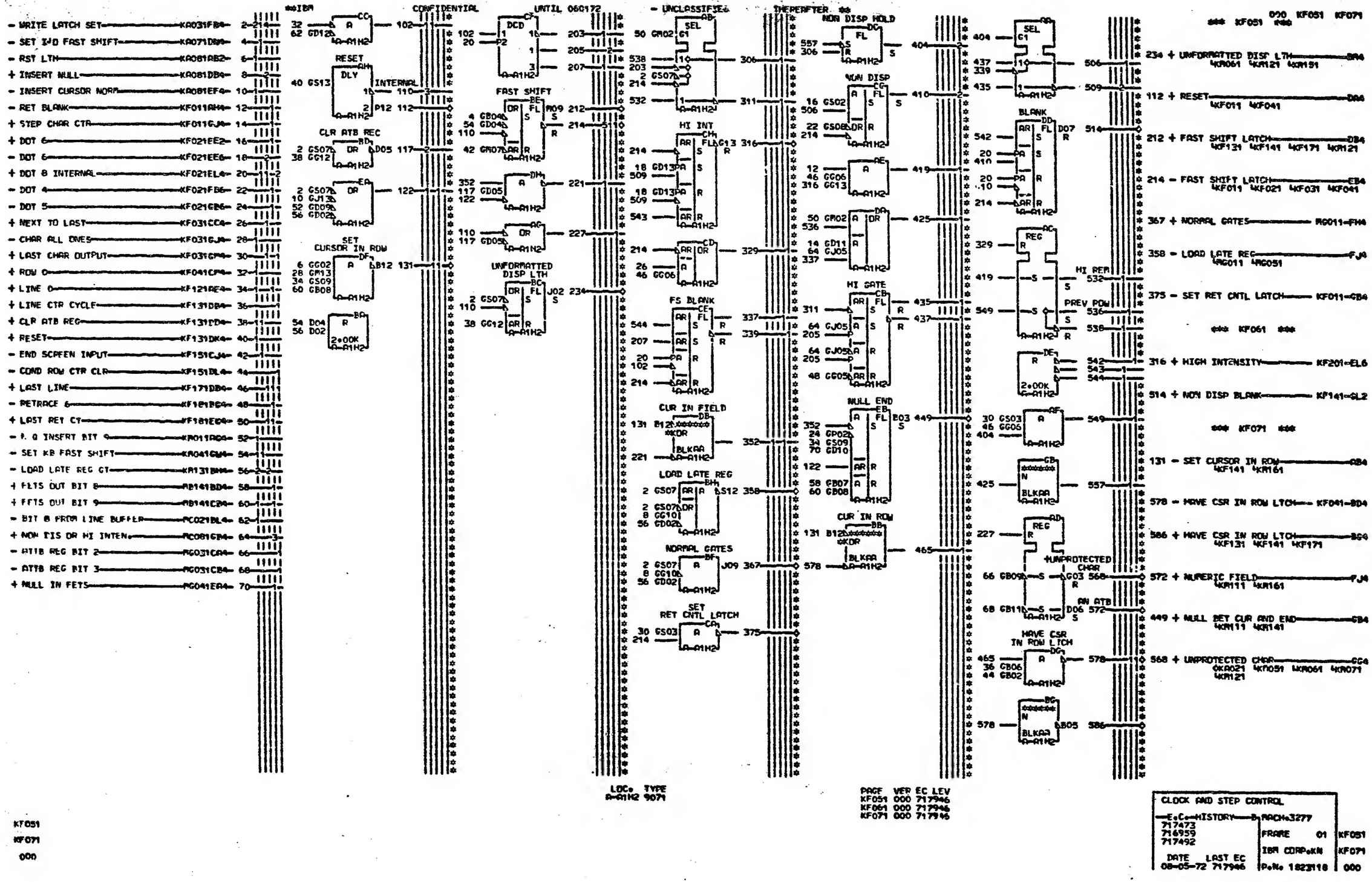
PAGE VER EC LEV
KF011 001 717946
KF021 001 717946

CLOCK AND STEP CONTROL

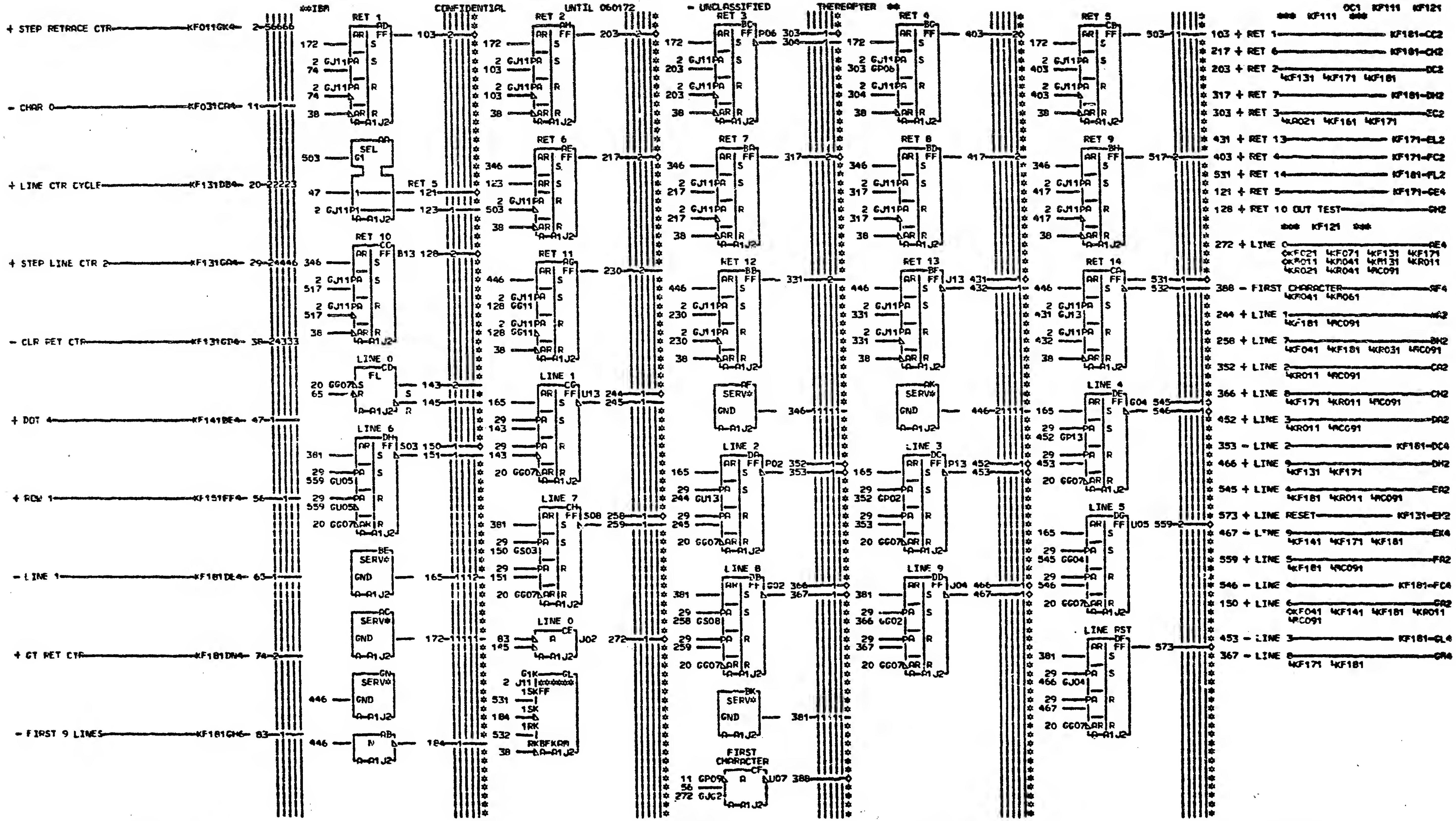
E.C.-HISTORY-B	RACH.3277	
717473		
716959	FRAME 01	KF011
717492	IBM CORP.KN	KF021
DATE LAST EC	P.N. 1823105	001
08-05-72 717946		

KF011
KF021
001


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
001 KF031 KF041
*** KF031 ***
- CLR FET SHIFT KF011AF4 2
- RESET CHAR CTR KF011AR4 5
- RST CHAR CTR PDW KF011EH4 8
- STEP DOT CTR KF011FB4 11
+ INTERFACE SHIFT KF011FR4 14
- SET CHAR 128 A KF011GF4 17
- SET CHAR 128 B KF011GG4 20
+ STEP CHAR CTR KF011GJ4 23
+ DOT 2 KF021DR2 26
- DOT 7 KF021EF4 29
+ DOT 4 KF021FB2 32
+ DOT 5 KF021GB2 35
+ ALLOW SHIFT SR KF041007 38
+ RESET KF051DA4 41
- FAST SHIFT LATCH KF051EB4 44
- HAVE CSR IN RDB LTCH KF071BD4 47
+ LINE 7 KF121BH2 50
+ LINE 6 KF121CA2 53
+ SHIFT LB CONTROL KF131BK4 56
- RDB 0 KF151GE4 59
+ LAST RDB KF151GG4 62
- SET INHIBIT SHIFT KF151GR4 65
- CLR FET SHIFT CNTL KF181FB4 68
- 1920 + 480 MC031FE4 71
CHAR 1
CHAR 2
CHAR 4
CHAR 8
CHAR 16
CHAR 32
CHAR 64
CHAR ALL ONES
GATE STEP LINE CTR
CLR INH SHIFT
FET SHFT CNTL
SHIFT FETS
NEXT TO LAST
CHAR 0
INH SHIFT
LAST CHAR OUTPUT
NEXT TO LAST CHAR
1920
RDB 0
539 - CHAR 0 CA4
453 + NEXT TO LAST KF061-CC4
153 + CLR INH SHIFT CK4
138 - GATE STEP LINE CTR KF131-CM4
504 - NEXT TO LAST CHAR 2C4
131 - CHAR ALL ONES GJ4
573 + LAST CHAR OUTPUT CR4
180 + RDB 0 CP4
173 + 1920 KF011-GB4
531 - SHIFT FETS GE4
*** KF041 ***
A-SIM TO PN 1563742 EC 717946
LOC. TYPE
A-A1H2 9071
PAGE VEP EC LEV
KF031 001 717946
KF041 000 717946
CLOCK AND STEP CONTROL
E.C. HISTORY
717473
716959
717492
DATE LAST EC
08-05-72 717946
RACH-3277
FRAME 01
IBM CORP.-KN
P.N. 1823112
KF031
KF041
001


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
- WRITE LATCH SET
- SET I*D FAST SHIFT
- RST LTH
+ INSERT NULL
- INSERT CURSOR NORM
- RET BLANK
+ STEP CHAR CTR
+ DOT 6
- DOT 6
+ DOT 8 INTERNAL
- DOT 4
- DOT 5
+ NEXT TO LAST
- CHAR ALL ONES
+ LAST CHAR OUTPUT
+ ROW 0
+ LINE 0
+ LINE CTR CYCLE
+ CLR ATB REC
+ RESET
- END SCREEN INPUT
- COND ROW CTR CLR
+ LAST LINE
- RETRACE 6
+ LAST RET CT
- P. O INSERT BIT 9
- SET KB FAST SHIFT
- LOAD LATE REG CT
+ FETS OUT BIT 8
+ FETS OUT BIT 9
- BIT 8 FROM LINE BUFFER
+ NON DIS OR HI INTEN
- ATTB REG BIT 2
- ATTB REG BIT 3
+ NULL IN FETS
RESET
DLY
INTERNAL
CLR ATB REC
SET
CURSOR IN ROW
2*00K
FAST SHIFT
HI INT
UNFORMATTED
DISP LTH
FS BLANK
CUR IN FIELD
LOAD LATE REG
NORMAL GATES
SET
RET CNTL LATCH
NON DISP HOLD
NON DISP
HI GATE
NULL END
CUR IN ROW
SEL
BLANK
REG
PREV POW
HI RES
HAVE CSR
IN ROW LTCH
UNPROTECTED
CHAR
AN ATB
*** KF051 ***
000 KF051 KF071
234 + UNFORMATTED DISP LTH 4KR061 4KR121 4KR191
112 + RESET 4KF011 4KF041
212 + FAST SHIFT LATCH 4KF131 4KF141 4KF171 4KR121
214 - FAST SHIFT LATCH 4KF011 4KF021 4KF031 4KF041
367 + NORMAL GATES RG011-FH4
358 - LOAD LATE REG 4RG011 4RG051
375 - SET RET CNTL LATCH KF011-GB4
*** KF061 ***
316 + HIGH INTENSITY KF201-EL6
514 + NON DISP BLANK KF141-GL2
*** KF071 ***
131 - SET CURSOR IN ROW 4KF141 4KR161
578 - HAVE CSR IN ROW LTCH KF041-BD4
586 + HAVE CSR IN ROW LTCH 4KF131 4KF141 4KF171
572 + NUMERIC FIELD 4KR111 4KR161
449 + NULL BET CUR AND END 4KR111 4KR141
568 + UNPROTECTED CHAR 0KR021 4KR051 4KR061 4KR071 4KR121
LOC. TYPE
A-A1H2 9071
PAGE VER EC LEV
KF051 000 717946
KF061 000 717946
KF071 000 717946
CLOCK AND STEP CONTROL
E.C. HISTORY
717473
716959
717492
DATE LAST EC
08-05-72 717946
MACH.3277
FRAME 01
IBM CORP.KN
P.No 1823118
KF051
KF071
000

IBM CONFIDENTIAL UNTIL 060172 — UNCLASSIFIED THEREAFTER



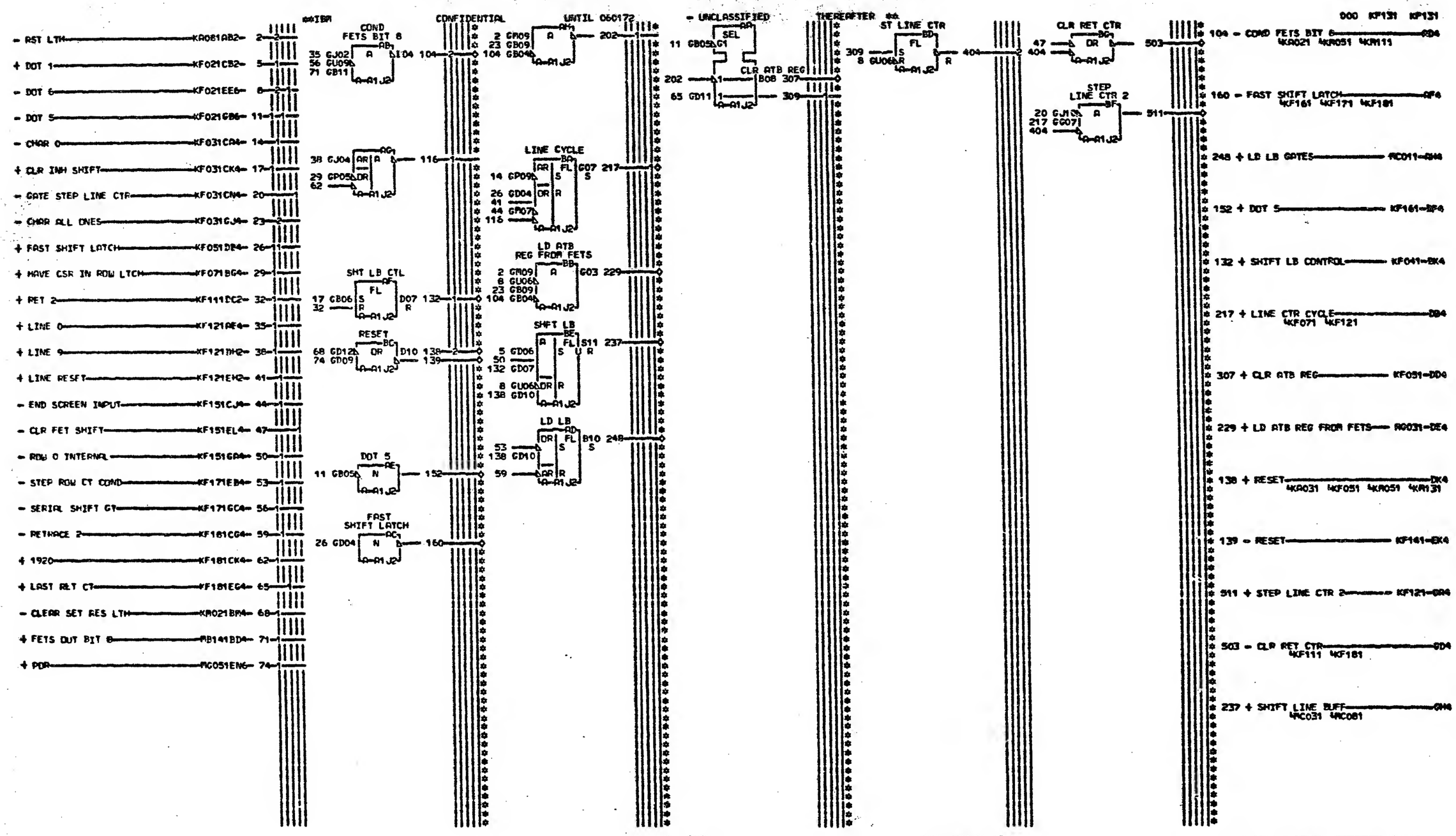
B=STP TO PN 1563748 EC 717946

LOC. TYPE
A-A1J2 9067

PAGE	VER	EC LEV
KF111	000	717492
KF121	001	717946

DISPLAY CONTROL		
E.C. HISTORY: 717473, 717492	MACH 3277	
	FRAME 01	KF111
DATE 08-05-72, LAST EC 717946	IBM CORP. KN	KF121
	P.N. 1823123	001

KF111
KF121
001


**IBR
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
000 KF131 KP131
- RST LTH KA081AB2- 2
+ DOT 1 KF021CB2- 5
- DOT 6 KF021EE6- 8
- DOT 5 KF021GB6- 11
- CHAR 0 KF031CA4- 14
+ CLR INH SHIFT KF031CK4- 17
- GATE STEP LINE CTR KF031CN4- 20
- CHAR ALL ONES KF031GJ4- 23
+ FAST SHIFT LATCH KF051DB4- 26
+ HAVE CSR IN ROW LTCH KF071BG4- 29
+ RET 2 KF111DC2- 32
+ LINE 0 KF121AE4- 35
+ LINE 9 KF121HH2- 38
+ LINE RESET KF121EH2- 41
- END SCREEN INPUT KF151CJ4- 44
- CLR FET SHIFT KF151EL4- 47
- ROW 0 INTERNAL KF151GA4- 50
- STEP ROW CT COND KF171EB4- 53
- SERIAL SHIFT CT KF171GC4- 56
- RETRACE 2 KF181CG4- 59
+ 1920 KF181CK4- 62
+ LAST RLT CT KF181EG4- 65
- CLEAR SET RES LTH KA021BR4- 68
+ FETS OUT BIT 8 MB141BD4- 71
+ POR MC051EN6- 74
COND FETS BIT 8
35 GJ02
56 GU09
71 GB11
104
LINE CYCLE
14 GP09
26 GD04
41
44 GP07
116
217
LD ATB REG FROM FETS
2 GR09
8 GU06
23 GB09
104 GB04
229
SMT LB CTL
17 GB06
32
D07 132
RESET
68 GD12
74 GD09
D10 138
139
SHFT LB
5 GD06
50
132 GD07
8 GU06
138 GD10
S11 237
LD LB
53
138 GD10
59
B10 248
DOT 5
11 GB05
152
FAST SHIFT LATCH
26 GD04
160
2 GR09
23 GB09
104 GB04
202
CLR ATB REG
11 GB05
202
65 GD11
B08 307
309
ST LINE CTR
309
8 GU06
404
CLR RET CTR
47
404
503
STEP LINE CTR 2
20 GJ15
217 GG07
404
511
104 - COND FETS BIT 8 GD4
4KA021 4KR051 4KR111
160 - FAST SHIFT LATCH GF4
4KF161 4KF171 4KF181
248 + LD LB GATES RC011-RM4
152 + DOT 5 KF161-BF4
132 + SHIFT LB CONTROL KF041-BK4
217 + LINE CTR CYCLE DD4
4KF071 4KF121
307 + CLR ATB REG KF051-DD4
229 + LD ATB REG FROM FETS RG031-DE4
138 + RESET DK4
4KA031 4KF051 4KA051 4KR131
139 - RESET KF141-EK4
511 + STEP LINE CTR 2 KF121-GR4
503 - CLR RET CTR GD4
4KF111 4KF181
237 + SHIFT LINE BUFF GM4
4RC031 4RC081
LOC. TYPE
A-A1 J2 9067
PAGE VER EC LEV
KF131 000 717946
DISPLAY CONTROL
E.C. HISTORY
717473
717492
DATE LAST EC
08-05-72 717946
RACH.3277
FRAME 01
IBR CORP.KN
P.No 1823127
KF131
KF131
000

**IBM CONFIDENTIAL UNTIL 060172 - UNCLASSIFIED THEREAFTER **

- SYST RDY LTH SET — KA031EF2 — 2
- HALT LMP CONTROL — KA031FB4 — 4
- INPUT INHIBIT — KA061EP4 — 6
- RST LTH — KA081AB2 — 8
+ INTERFACE OP — KF011BC4 — 10
+ RST ROW CTR 2 4 8 16 — KF011CG4 — 12
+ DOT 1 — KF021CB2 — 14
- DOT 6 — KF021EE6 — 16
- DOT 4 — KF021FB6 — 18
- DOT 5 — KF021GB6 — 20
+ CLR INH SHIFT — KF031CK4 — 22
+ LAST CHAR OUTPUT — KF031GP4 — 24
- SHIFT FETS — KF041GF4 — 26
+ FAST SHIFT LATCH — KF051DB4 — 28
+ NON DISP BLANK — KF061GL2 — 30
- SET CURSOR IN ROW — KF071AP4 — 32
+ HAVE CSR IN ROW LTCH — KF071BG4 — 34
+ RET 3 — KF111EC2 — 36
- LINE 9 — KF121EP4 — 38
+ LINE 6 — KF121GA2 — 40
- FAST SHIFT LATCH — KF131AF4 — 42
+ DOT 5 — KF131BF4 — 44
- RESET — KF131EK4 — 46
- RET 5 — KF171CF4 — 48
- STEP ROW CT CONT — KF171EB4 — 50
- SERIAL SHIFT CT — KF171GC4 — 52
- STEP RET CTR — KF181BL4 — 54
+ LP LINE — KF181CD4 — 56
- RETRACE 2 — KF181CG4 — 58
+ 192V — KF181CK4 — 60
- FIRST 9 LINES — KF181GH6 — 62
- SECURITY KEY — KF201AB5 — 64
- CLEAR SET RES LTH — KA021BP4 — 66
- FILL HOLE — KA041FJ4 — 68
- INSERT MODE — KA121AP4 — 70
+ ALLOW CSR CK — KA151EG4 — 72
- DRAW BARS — KT051AL4 — 74
- 1920 + 480 — PC031FE4 — 76
+ P CHK BFR — AG041EB4 — 78

DLY CLR FET SHIFT — 12 GD02 — 1 → 134, 2 → 106
ROW 2 — 248, 235, 113, 235, 113, 512 — → 111, 113
SEL — 235 — G1
ROW 1 — 516 → 1 → 129, D13 → 130, 538 GR11 → 132
DOT 4 — DLY — 18 GS04 — 1 → 144, 2 → 147
END SCR — 233, 317, 411, 76 GG09, 233, 219, 317, 104, 505 GJ12 — → 203
ROW 4 — 247, 113, 221, 113, 221, 512 — → 219, 221
ROW 1 — 106, 538 GR11, 235, 132, 407 — → 233, 235
2.00K — → 245, 246, 247, 248
HORIZ SYNC — 36 GP06, 44 — FL U10 — 280
CLR INSERT CSR LATCH — 14 GD06, 26 GU04, 52 GU09 — → 188
SEL — 203 — G1
CLR FILL HOLE LATCH — 22 GB06 — A12 308
END SCREE INPUT — 68 GG05 — A08 312
ROW 8 — 246, 221, 319, 221, 319, 512 — → 217, 319
ND CSR — 40 GS03, 233, 516, 46, 16 GU06, 34 GP05 — → 331, 333
UNBLANK IND — 2 GJ09, 60, 111, 221, 317, 448, 6 GG13, 60, 111, 219, 317, 448, 2 GJ09, 76 GG09, 113, 219, 319, 448, 6 GG13, 76 GG09, 113, 221, 317, 448, 70 GG12, 76 GG09, 111, 219, 317, 448 — → 344
DLY — 312 GP07 — 1 → 403
END SCREEN — 406
ROW 16 — 245, 319, 413, 319, 413, 512 — → 411, 413
24 GS06, 56 GB07, 331, 544 GS02, 8 GP09, 32 GP04, 144, 333 — → 424
STEP ROW CTR — 50, 28 GD04, 20 GB05, 505 GJ12 — → 437
36 GP06, 54, 62, 235, 413 — → 448
FORCE UNBLANK LINE — 56 GB07, 74 GS07, 233, 516 — → 458
SET INHIBIT SHIFT — 10 GJ06, 58, 312 GP07, 104 — → 474
66 D12, 68 G05, 70 G12, 72 LN2 — 2.00K
COND CLR — 12 GD02, 403, 16 GU06 — → 503
DLY — 503 — 2 → 512
113, 221, 319, 413 — → 516
DEV=CK — 8 GP09, 78 GP10, 10 GJ06, 72 GU12, 424, 4 GD05, 46 — → 524
STEP ROW CTR — 437, 503 — → 538
LAST ROW — 317, 411, 76 GG09, 219, 317 — → 544
BLANK CRT AT VIDEO OUTPUT — 64 GS10 — → 555
233, 516 — → 567
ROW 0 INTERNAL — 30 GM13, 38, 458 GS09 — → 568
SET RET CNTL FILL HOLE — 22 GB06, 403 — → 574

001 KF141 KF161

*** KF141 ***

144 + DOT 4 — KF111-BE4
458 - FORCE UNBLANK LINE — RC021-E4
538 + STEP ROW CTR — FB4
4KT031 4KT061
280 + HORIZ SYNC — KF201-GC4
524 + DEV CHECK — GJ4
4KA061 4KA111
555 + BLANK CRT AT VIDEO OUTPUT — GR4
4RC091

*** KF151 ***

312 - END SCREEN INPUT — CJ4
4KA011 4KA021 4KA081 4KF051
4KF131 4KR111 4KR071
503 - COND ROW CTR CLR — KF071-DL4
308 - CLR FILL HOLE LATCH — KA041-DR4
104 - CLR FET SHIFT — EL4
4KF131 4KF171
129 + ROW 1 — KF121-FF4
567 - ROW 0 INTERNAL — GR4
4KF131 4KF181
568 - ROW 0 — CE4
4KA021 4KA071 4KF041 4KR011
4KR071 4KT041 4RC021 4RC111
130 - ROW 1 — KR131-GF4
544 + LAST ROW — GG4
4KA021 4KF031 4KR051
406 - END SCREEN — KF171-GH4
574 - SET RET CNTL FILL HOLE — KF011-GK4
474 - SET INHIBIT SHIFT — KF041-GR4

*** KF161 ***

344 - UNBLANK IND — BE4
4RC081 4RC091
188 - CLR INSERT CSR LATCH — KA081-BN4

B.SIM TD PN 1563750 EC 717492
B.SIM TB PN 1563751 EC 717946

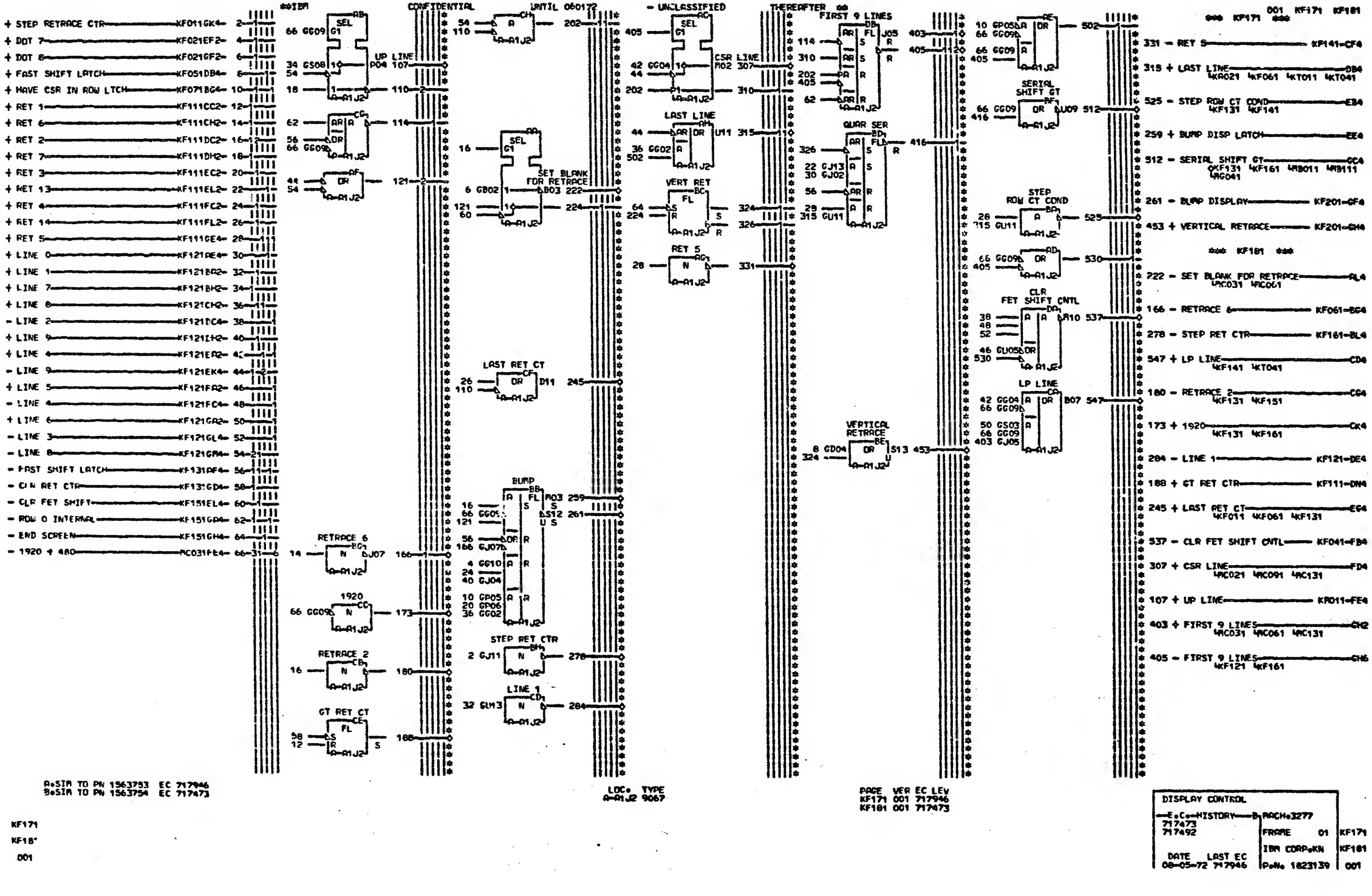
LOC. TYPE
A-A1J2 9067

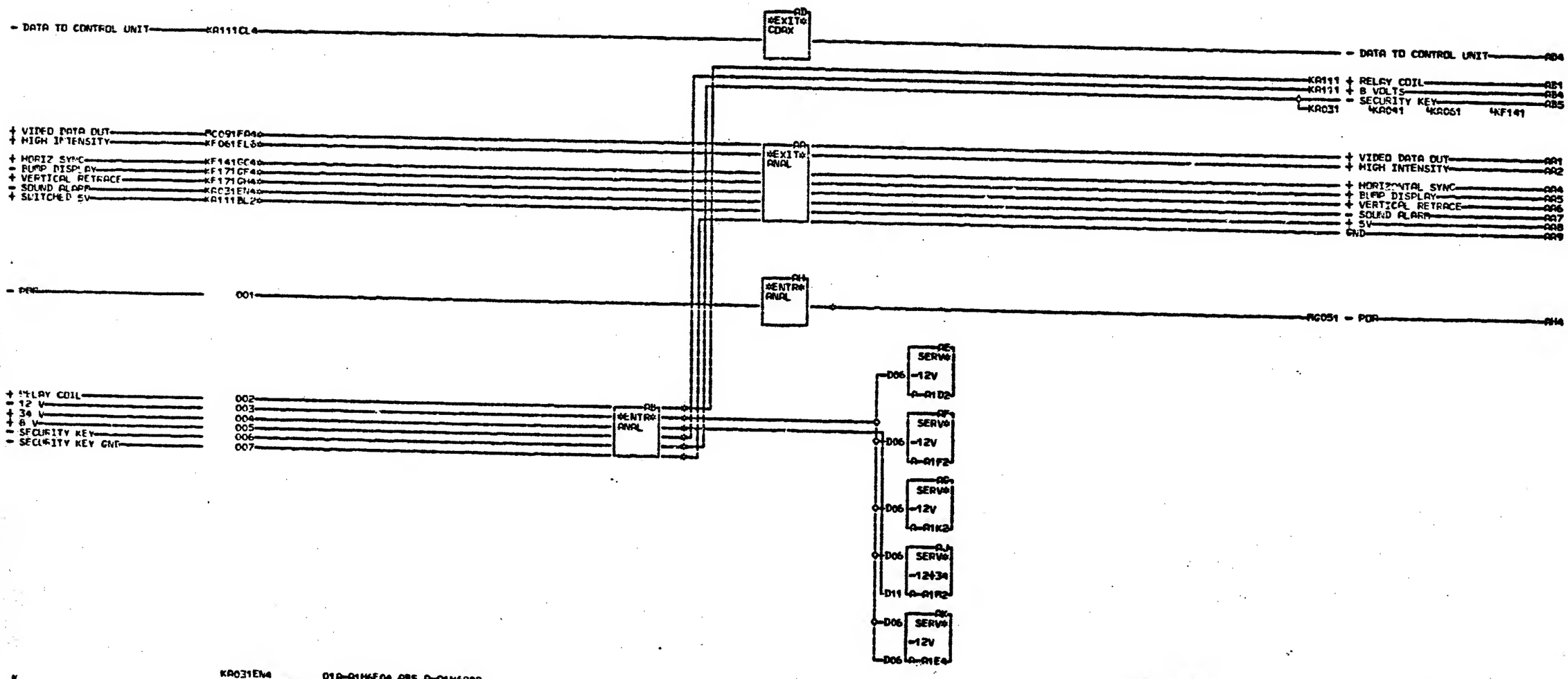
PAGE	VER	EC LEV
KF141	001	717492
KF151	001	717946
KF161	001	717473

DISPLAY CONTROL

E.C.-HISTORY — B.ARCH.3277
717473
716959
717492
FRAME 01 KF141
IBM CORP.-KN KF161
DATE LAST EC
08-05-72 717946
P.N. 1823132 001

KF141
KF161
001


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
FIRST 9 LINES
+ STEP RETRACE CTR KF011GK4 2
+ DOT 7 KF021EF2 4
+ DOT 8 KF021GF2 6
+ FAST SHIFT LATCH KF051DB4 8
+ HAVE CSR IN ROW LTCH KF071BG4 10
+ RET 1 KF111CC2 12
+ RET 6 KF111CH2 14
+ RET 2 KF111DC2 16
+ RET 7 KF111DH2 18
+ RET 3 KF111EC2 20
+ RET 13 KF111EL2 22
+ RET 4 KF111FC2 24
+ RET 14 KF111FL2 26
+ RET 5 KF111GE4 28
+ LINE 0 KF121AE4 30
+ LINE 1 KF121BG2 32
+ LINE 7 KF121BH2 34
+ LINE 6 KF121CH2 36
- LINE 2 KF121DC4 38
+ LINE 9 KF121DH2 40
+ LINE 4 KF121EG2 42
- LINE 9 KF121EK4 44
+ LINE 5 KF121FG2 46
- LINE 4 KF121FC4 48
+ LINE 6 KF121GG2 50
- LINE 3 KF121GL4 52
- LINE 8 KF121GM4 54
- FAST SHIFT LATCH KF131DF4 56
- CLR RET CTR KF131GD4 58
- CLR FET SHIFT KF151EL4 60
- ROW 0 INTERNAL KF151GD4 62
- END SCREEN KF151GH4 64
- 1920 + 480 MC031FE4 66
UP LINE P04 107
CSR LINE M02 307
SET BLANK FOR RETRACE B03 222
LAST RET CT D11 245
RETRACE 6 EG1 N GJ07 166
1920 CC N GG09 173
RETRACE 2 CB N 180
GT RET CT CE FL S R 188
LAST LINE DH DR U11 315
VERT RET BC FL S R 324
RET 5 AG N 331
BUMP BB A FL M03 259 S
S12 261 U S
STEP RET CTR BH N GJ11 278
LINE 1 CD N GU13 284
QUAR SER BD FL R 416
SERIAL SHIFT CT BF DR GU09 512
STEP ROW CT COND BA A GU11 525
CLR FET SHIFT CNTL DA A A A10 537
LP LINE CA A DR B07 547
VERTICAL RETRACE BE DR U S13 453
001 KF171 KF181
*** KF171 ***
331 - RET 5 KF141-CF4
315 + LAST LINE 4KR021 4KF061 4KT011 4KT041 DB4
525 - STEP ROW CT COND 4KF131 4KF141 EB4
259 + BUMP DISP LATCH EE4
512 - SERIAL SHIFT CT KF131 4KF161 4MB011 4MB111 4RG041 CC4
261 - BUMP DISPLAY KF201-GF4
453 + VERTICAL RETRACE KF201-GH4
*** KF181 ***
722 - SET BLANK FOR RETRACE 4RC031 4RC061 RL4
166 - RETRACE 6 KF061-BG4
278 - STEP RET CTR KF161-BL4
547 + LP LINE 4KF141 4KT041 CD4
180 - RETRACE 2 4KF131 4KF151 CG4
173 + 1920 4KF131 4KF161 CK4
284 - LINE 1 KF121-DE4
188 + GT RET CTR KF111-DN4
245 + LAST RET CT 4KF011 4KF061 4KF131 EG4
537 - CLR FET SHIFT CNTL KF041-FB4
307 + CSR LINE 4RC021 4RC091 4RC131 FD4
107 + UP LINE KF011-FE4
403 + FIRST 9 LINES 4RC031 4RC061 4RC131 CH2
405 - FIRST 9 LINES 4KF121 4KF161 CH6
LOC. TYPE
A-A1J2 9067
A.SIR TO PN 1563753 EC 717946
B.SIR TO PN 1563754 EC 717473
PAGE VER EC LEv
KF171 001 717946
KF181 001 717473
DISPLAY CONTROL
E.C.-HISTORY- B.RACH.3277
717473
717492
FRAME 01 KF171
IBM CORP.KN KF181
DATE LAST EC
08-05-72 717946
P.N. 1823139 001
KF171
KF18*
001



001
STR TO PN 1963755 EC 717946

KA031EW4	01A-A1H6E04	AB5	A-A1H6A02
01A-A1K6A04	KF171GH4	AB6	A-A1J6B02
KA111BL2	01A-A1J6E04	01A-A1H6C02	
01A-A1H6B02	RC091FA4	AH4	A-A1K6B02
KF061EL6	01A-A1H6C04		
01A-A1J6E02	AB1	A-A1J6E04	
KF141GC4	AB2	A-A1J6C04	
01A-A1J6D04	AB3	A-A1K6B04	
KF171GF4	AB4	A-A1J6A04	

LOC. TYPE

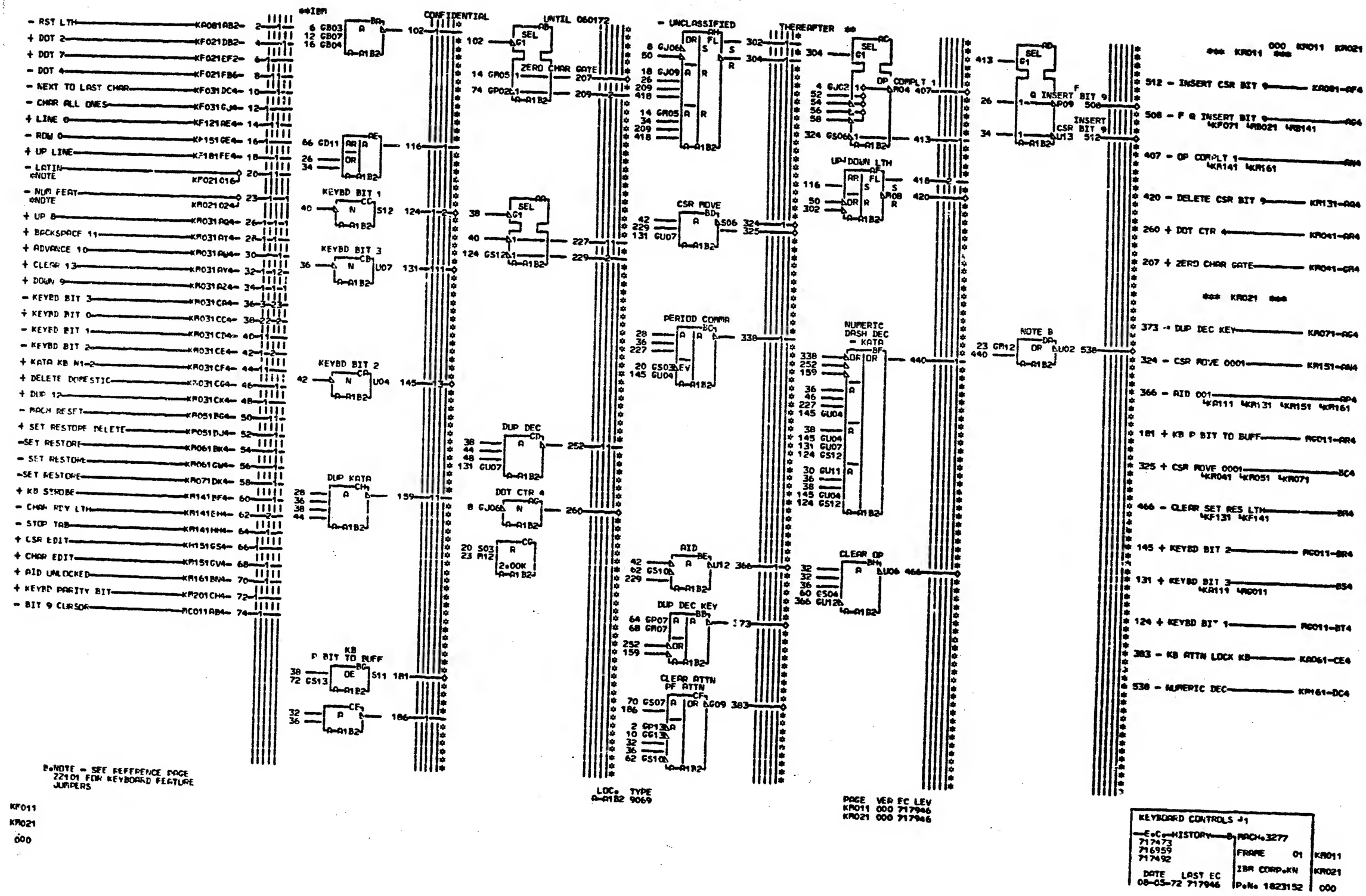
CONNECTOR PAGE

-E.C.-	-HISTORY-	-B.
717473		
716959		
717492		

DATE LAST EC
08-05-72 717946

RACK 3277
FRAME 01
IBM CORP. SDD
P.NO 1823146

KF201 001


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
- RST LTH KA081AB2- 2
+ DOT 2 KF021DB2- 4
+ DOT 7 KF021EF2- 6
- DOT 4 KF021FB6- 8
- NEXT TO LAST CHAR KF031DC4- 10
- CHAR ALL ONES KF031GJ4- 12
+ LINE 0 KF121AE4- 14
- ROW 0 KF151GE4- 16
+ UP LINE KF181FE4- 18
- LATIN *NOTE KF021016 20
- NUM FEAT *NOTE KA021024 23
+ UP 8 KA031AQ4- 26
+ BACKSPACE 11 KA031AT4- 28
+ ADVANCE 10 KA031AW4- 30
+ CLEAR 13 KA031AY4- 32
+ DOWN 9 KA031A24- 34
- KEYBD BIT 3 KA031CA4- 36
+ KEYBD BIT 0 KA031CC4- 38
- KEYBD BIT 1 KA031CD4- 40
- KEYBD BIT 2 KA031CE4- 42
+ KATA KB N1-2 KA031CF4- 44
+ DELETE DOMESTIC KA031CG4- 46
+ DUP 12 KA031CK4- 48
- POCN RESET KA051BG4- 50
+ SET RESTORE DELETE KA051DJ4- 52
-SET RESTORE KA061BK4- 54
- SET RESTORE KA061GU4- 56
-SET RESTORE KA071DK4- 58
+ KB STROBE KA141BF4- 60
- CHAR RTY LTH KA141EH4- 62
- STOP TAB KA141HN4- 64
+ CSR EDIT KA151GS4- 66
+ CHAR EDIT KA151GV4- 68
+ AID UNLOCKED KA161BN4- 70
+ KEYBD PARITY BIT KA201CH4- 72
- BIT 9 CURSOR KC011AB4- 74
6 GB03
12 GB07
16 GB04
102
66 GD11
26
34
116
KEYBD BIT 1
40
S12
124
KEYBD BIT 3
36
U07
131
KEYBD BIT 2
42
U04
145
102
14 GR05
ZERO CHAR GATE
74 GP02
207
209
38
GS12
227
229
DUP DEC
38
44
48
131 GU07
252
DUP KATA
28
36
38
44
159
DOT CTR 4
8 GJ06
260
20 S03
23 A12
2.00K
KB P BIT TO BUFF
38
72 GS13
S11
181
186
8 GJ06
50
18 GJ09
26
209
418
14 GR05
34
209
418
42
229
131 GU07
S06
324
325
28
36
227
20 GS03
145 GU04
338
42
62 GS10
229
366
64 GP07
68 GR07
252
159
373
70 GS07
186
2 GP13
10 GG13
32
36
62 GS10
383
302
304
4 GJC2
52
54
56
58
324 GS06
OP COMPLT 1
R04
407
413
UP/DOWN LTH
116
50
302
R08
418
420
338
252
159
36
46
227
145 GU04
38
145 GU04
131 GU07
124 GS12
30 GU11
36
38
145 GU04
124 GS12
440
32
32
36
60 GS04
366 GU12b
CLEAR OP
U06
466
413
26
34
INSERT CSR BIT 9
U13
512
23
440
NOTE B
U02
538
*** KR011 000 KR011 KR021 ***
512 - INSERT CSR BIT 9 KA081-AF4
508 - F Q INSERT BIT 9 *KF071 *KB021 *KB141 AQ4
407 - OP COMPLT 1 *KR141 *KR161 AN4
420 - DELETE CSR BIT 9 KR131-AQ4
260 + DOT CTR 4 KR041-AR4
207 + ZERO CHAR GATE KR041-AR4
*** KR021 ***
373 - DUP DEC KEY KA071-AG4
324 - CSR MOVE 0001 KR151-AN4
366 - AID 001 *KA111 *KA131 *KA151 *KA161 AP4
181 + KB P BIT TO BUFF KC011-AR4
325 + CSR MOVE 0001 *KR041 *KR051 *KR071 BC4
466 - CLEAR SET RES LTH *KF131 *KF141 BR4
145 + KEYBD BIT 2 KC011-BR4
131 + KEYBD BIT 3 *KA111 *KC011 BS4
124 + KEYBD BIT 1 KC011-BT4
383 - KB ATTN LOCK KB KA061-CE4
538 - NUMERIC DEC KA161-DC4
*NOTE = SEE REFERENCE PAGE 22101 FOR KEYBOARD FEATURE JUMPERS
KF011
KR021
000
LOC. TYPE
A-A1B2 9069
PAGE VER EC LEV
KR011 000 717946
KR021 000 717946
KEYBOARD CONTROLS J1
-E.C.-HISTORY- 717473 716959 717492
DATE LAST EC 08-05-72 717946
MACH 3277
FRAME 01
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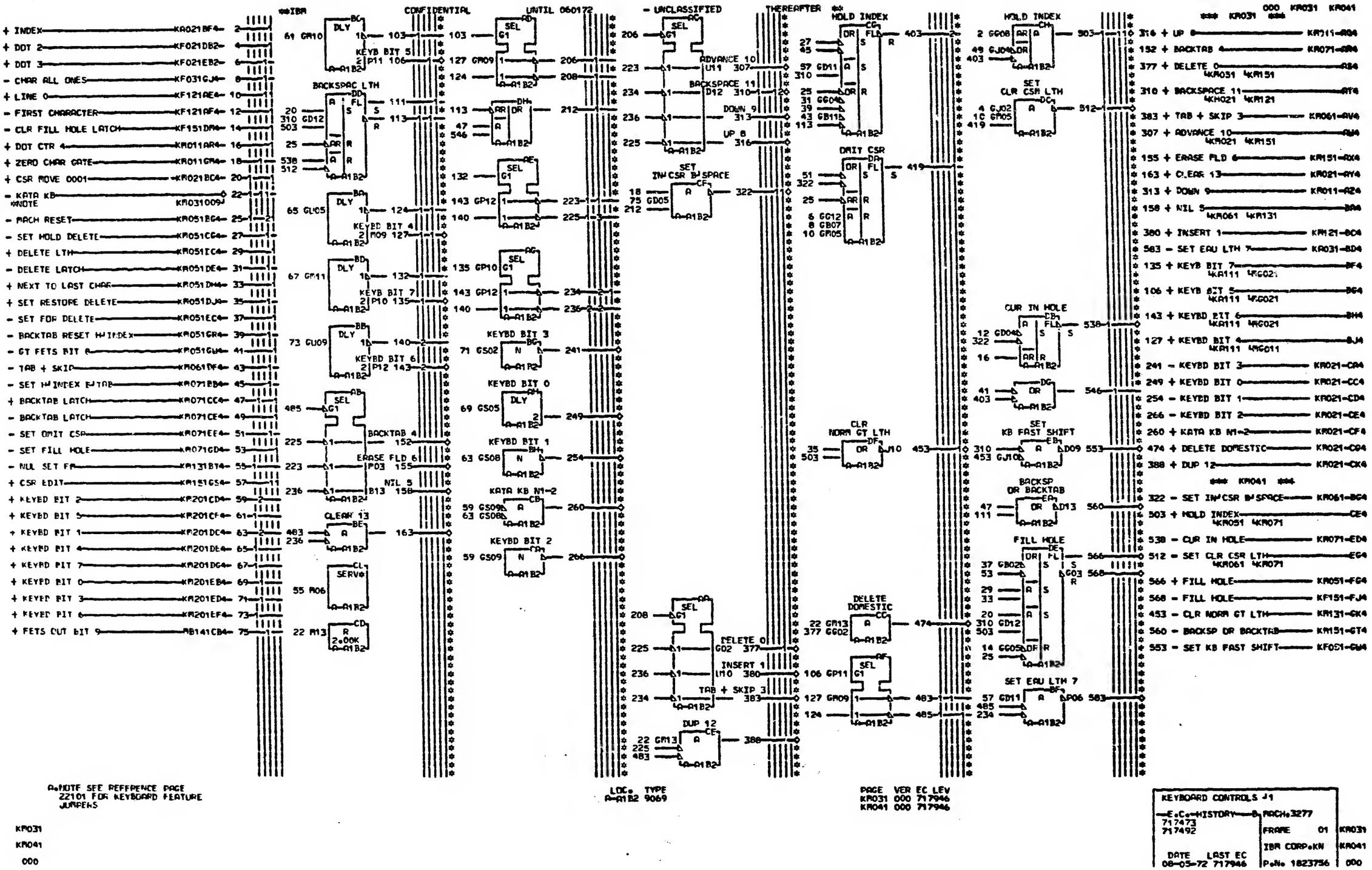
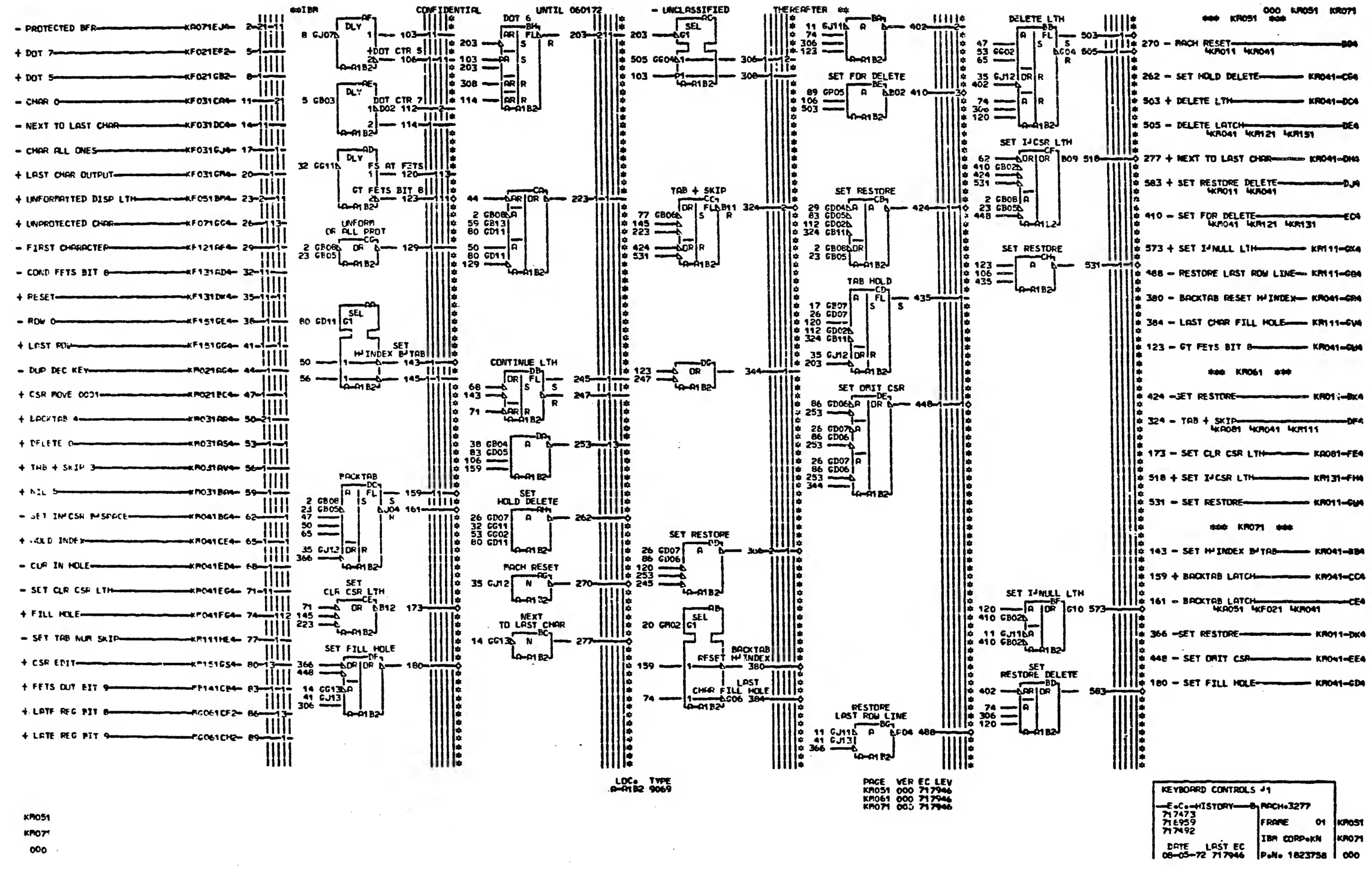
P.N. 1823152
KR011
KR021
000


**IBM CONFIDENTIAL UNTIL 060172 - UNCLASSIFIED THEREAFTER **
000 KR031 KR041
+ INDEX KA021BF4 2
+ DOT 2 KF021DB2 4
+ DOT 3 KF021EB2 6
- CHAR ALL ONES KF031GJ4 8
+ LINE 0 KF121AE4 10
- FIRST CHARACTER KF121AF4 12
- CLR FILL HOLE LATCH KF151DF4 14
+ DOT CTR 4 KR011AR4 16
+ ZERO CHAR GATE KR011GR4 18
+ CSR MOVE 0001 KR021BC4 20
- KATA KB KR031009J 22
**NOTE
- MACH RESET KR051BG4 25
- SET HOLD DELETE KR051CG4 27
+ DELETE LTH KR051IC4 29
- DELETE LATCH KR051DE4 31
+ NEXT TO LAST CHAR KR051DH4 33
+ SET RESTORE DELETE KR051DJ4 35
- SET FOR DELETE KR051EC4 37
- BACKTAB RESET W INDEX KR051GR4 39
- GT FETS BIT 8 KR051GJ4 41
- TAB + SKIP KR061DF4 43
- SET W INDEX W TAB KR071BB4 45
+ BACKTAB LATCH KR071CC4 47
- BACKTAB LATCH KR071CE4 49
- SET OMIT CSR KR071EE4 51
- SET FILL HOLE KR071GD4 53
- NUL SET FF KR131BT4 55
+ CSR EDIT KR151GS4 57
+ KEYBD BIT 2 KR201CD4 59
+ KEYBD BIT 5 KR201CF4 61
+ KEYBD BIT 1 KR201DC4 63
+ KEYBD BIT 4 KR201DE4 65
+ KEYBD BIT 7 KR201DG4 67
+ KEYBD BIT 0 KR201EB4 69
+ KEYBD BIT 3 KR201ED4 71
+ KEYBD BIT 6 KR201EF4 73
+ FETS OUT BIT 9 RB141CB4 75
DLY
KEYB BIT 5
P11
BACKSPAC LTH
CLEAR 13
SERV*
ERASE FLD 6
P03
NIL 5
P13
KEYBD BIT 4
P09
KEYB BIT 7
P10
KEYBD BIT 6
P12
SEL
BACKTAB 4
KEYBD BIT 3
KEYBD BIT 0
KEYBD BIT 1
KATA KB N1-2
KEYBD BIT 2
ADVANCE 10
U11
BACKSPACE 11
D12
DOWN 9
UP 8
SET IN CSR B SPACE
DELETE 0
INSERT 1
I10
TAB + SKIP 3
DUP 12
HOLD INDEX
DAIT CSR
CLR NORM GT LTH
DELETE DOMESTIC
SET KB FAST SHIFT
BACKSP OR BACKTAB
FILL HOLE
SET EAU LTH 7
SET CLR CSR LTH
CUR IN HOLE
316 + UP 8 KR011-RG4
152 + BACKTAB 4 KR071-RB4
377 + DELETE 0 RB4
310 + BACKSPACE 11 RT4
383 + TAB + SKIP 3 KR061-RV4
307 + ADVANCE 10 RJ4
155 + ERASE FLD 6 KR151-RX4
163 + CLEAR 13 KR021-RY4
313 + DOWN 9 KR011-RG4
158 + NIL 5 RR4
380 + INSERT 1 KR121-BC4
503 - SET EAU LTH 7 KR031-BD4
135 + KEYB BIT 7 BF4
106 + KEYB BIT 5 BG4
143 + KEYBD BIT 6 BH4
127 + KEYBD BIT 4 BJ4
241 - KEYBD BIT 3 KR021-CA4
249 + KEYBD BIT 0 KR021-CC4
254 - KEYBD BIT 1 KR021-CD4
266 - KEYBD BIT 2 KR021-CE4
260 + KATA KB N1-2 KR021-CF4
474 + DELETE DOMESTIC KR021-CG4
388 + DUP 12 KR021-CK4
322 - SET IN CSR B SPACE KR061-BG4
503 + HOLD INDEX CE4
538 - CUR IN HOLE KR071-ED4
512 - SET CLR CSR LTH EG4
566 + FILL HOLE KR051-FG4
568 - FILL HOLE KF151-FJ4
453 - CLR NORM GT LTH KR131-GK4
560 - BACKSP OR BACKTAB KR151-GT4
553 - SET KB FAST SHIFT KF051-GW4
*NOTE SEE REFFRENCE PAGE 22101 FOR KEYBOARD FEATURE JUMPERS
LOC. TYPE
A-A1B2 9069
PAGE VER EC LEV
KR031 000 717946
KR041 000 717946
KEYBOARD CONTROLS J1
E.C.-HISTORY
717473
717492
DATE LAST EC
08-05-72 717946
MACH.3277
FRAME 01
IBM CORP.KN
P.N. 1823756
KR031
KR041
000


**IBM CONFIDENTIAL UNTIL 060172 - UNCLASSIFIED THEREAFTER **
- PROTECTED BFR KA071EJ4
+ DOT 7 KF021EF2
+ DOT 5 KF021GB2
- CHAR 0 KF031CA4
- NEXT TO LAST CHAR KF031DC4
- CHAR ALL ONES KF031GJ4
+ LAST CHAR OUTPUT KF031GR4
+ UNFORMATTED DISP LTH KF051BP4
+ UNPROTECTED CHAR KF071GC4
- FIRST CHARACTER KF121AF4
- COND FETS BIT 8 KF131AD4
+ RESET KF131DK4
- ROW 0 KF151GE4
+ LAST ROW KF151GG4
- DUP DEC KEY KF021AG4
+ CSR MOVE 0001 KF021BC4
+ BACKTAB 4 KF031AB4
+ DELETE 0 KF031AS4
+ TAB + SKIP 3 KF031AV4
+ NIL 5 KF031BA4
- SET INH CSR H SPACE KF041BG4
+ HOLD INDEX KF041CE4
- CUR IN HOLE KF041ED4
- SET CLR CSR LTH KF041EG4
+ FILL HOLE KF041FG4
- SET TAB NUM SKIP KF111HE4
+ CSR EDIT KF151GS4
+ FETS OUT BIT 9 KF141CB4
+ LATE REG BIT 8 KG061CF2
+ LATE REG BIT 9 KG061CH2
DLY
DOT CTR 5
DOT CTR 7
FS AT FETS
GT FETS BIT 8
UNFORM OR ALL PROT
SET H INDEX B TAB
DOT 6
CONTINUE LTH
BACKTAB
SET HOLD DELETE
MACH RESET
NEXT TO LAST CHAR
SET CLR CSR LTH
SET FILL HOLE
SEL
TAB + SKIP
SET RESTORE
BACKTAB RESET H INDEX
LAST CHAR FILL HOLE
RESTORE LAST ROW LINE
SET FOR DELETE
TAB HOLD
SET OMIT CSR
DELETE LTH
SET I CSR LTH
SET I NULL LTH
SET RESTORE DELETE
*** KR051 ***
270 - MACH RESET 4KR011 4KR041
262 - SET HOLD DELETE KR041-CG4
503 + DELETE LTH KR041-DC4
505 - DELETE LATCH 4KR041 4KR121 4KR131 DE4
277 + NEXT TO LAST CHAR KR041-DH4
583 + SET RESTORE DELETE 4KR011 4KR041 DJ4
410 - SET FOR DELETE 4KR041 4KR121 4KR131 EC4
573 + SET I NULL LTH KR111-GX4
488 - RESTORE LAST ROW LINE KR111-G84
380 - BACKTAB RESET H INDEX KR041-GR4
384 - LAST CHAR FILL HOLE KR111-GV4
123 - GT FETS BIT 8 KR041-GJ4
*** KR061 ***
424 - SET RESTORE KR011-BX4
324 - TAB + SKIP 4KA081 4KR041 4KR111 DF4
173 - SET CLR CSR LTH KA081-FE4
518 + SET I CSR LTH KR131-FH4
531 - SET RESTORE KR011-GU4
*** KR071 ***
143 - SET H INDEX B TAB KR041-BB4
159 + BACKTAB LATCH KR041-CC4
161 - BACKTAB LATCH 4KA051 4KF021 4KR041 CE4
366 - SET RESTORE KR011-DK4
448 - SET OMIT CSR KR041-EE4
180 - SET FILL HOLE KR041-GD4
LOC. TYPE
A-A1B2 9069
PAGE VER EC LEV
KR051 000 717946
KR061 000 717946
KR071 000 717946
KEYBOARD CONTROLS J1
-E.C.-HISTORY- -B-
717473
716959
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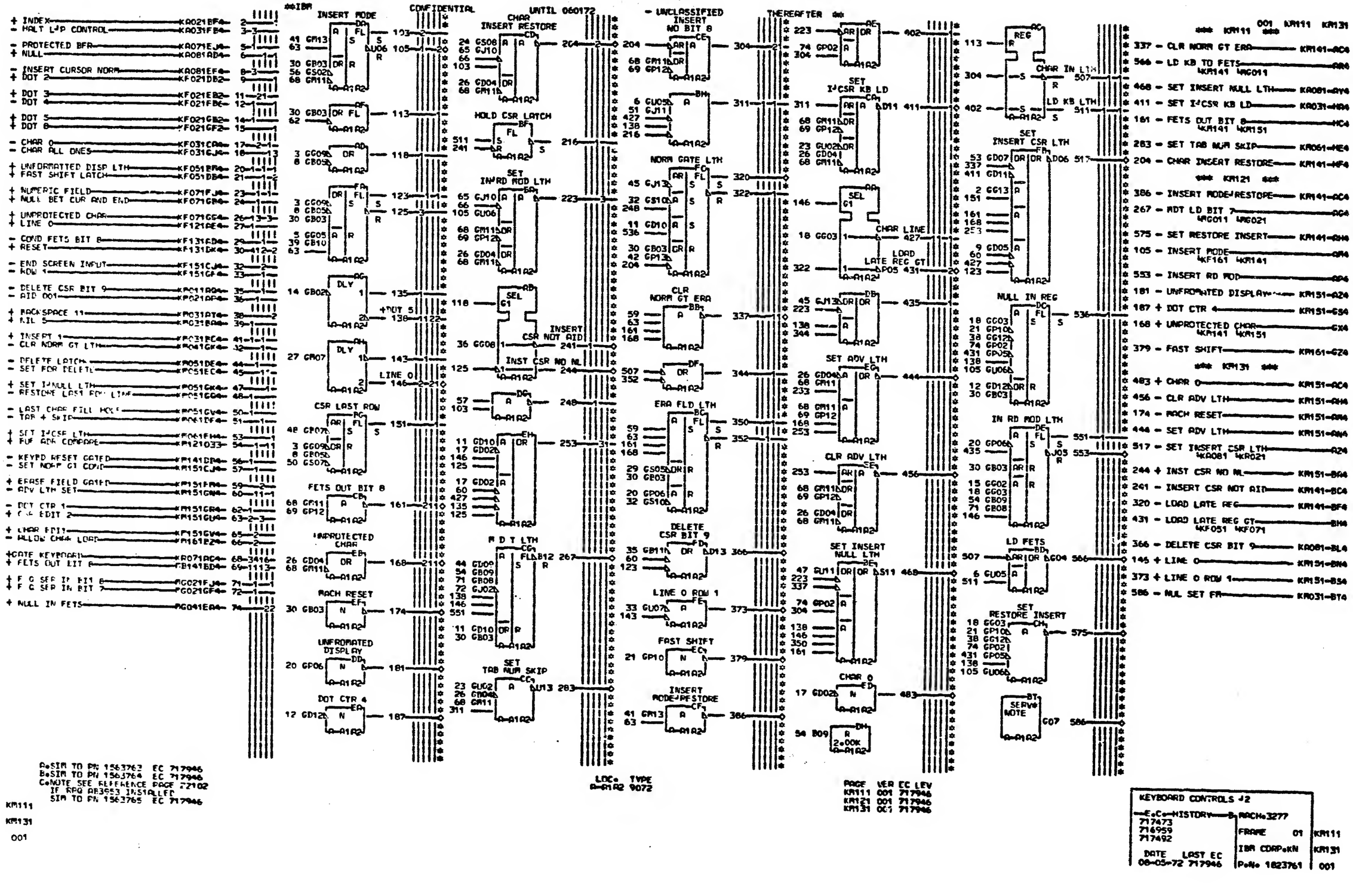
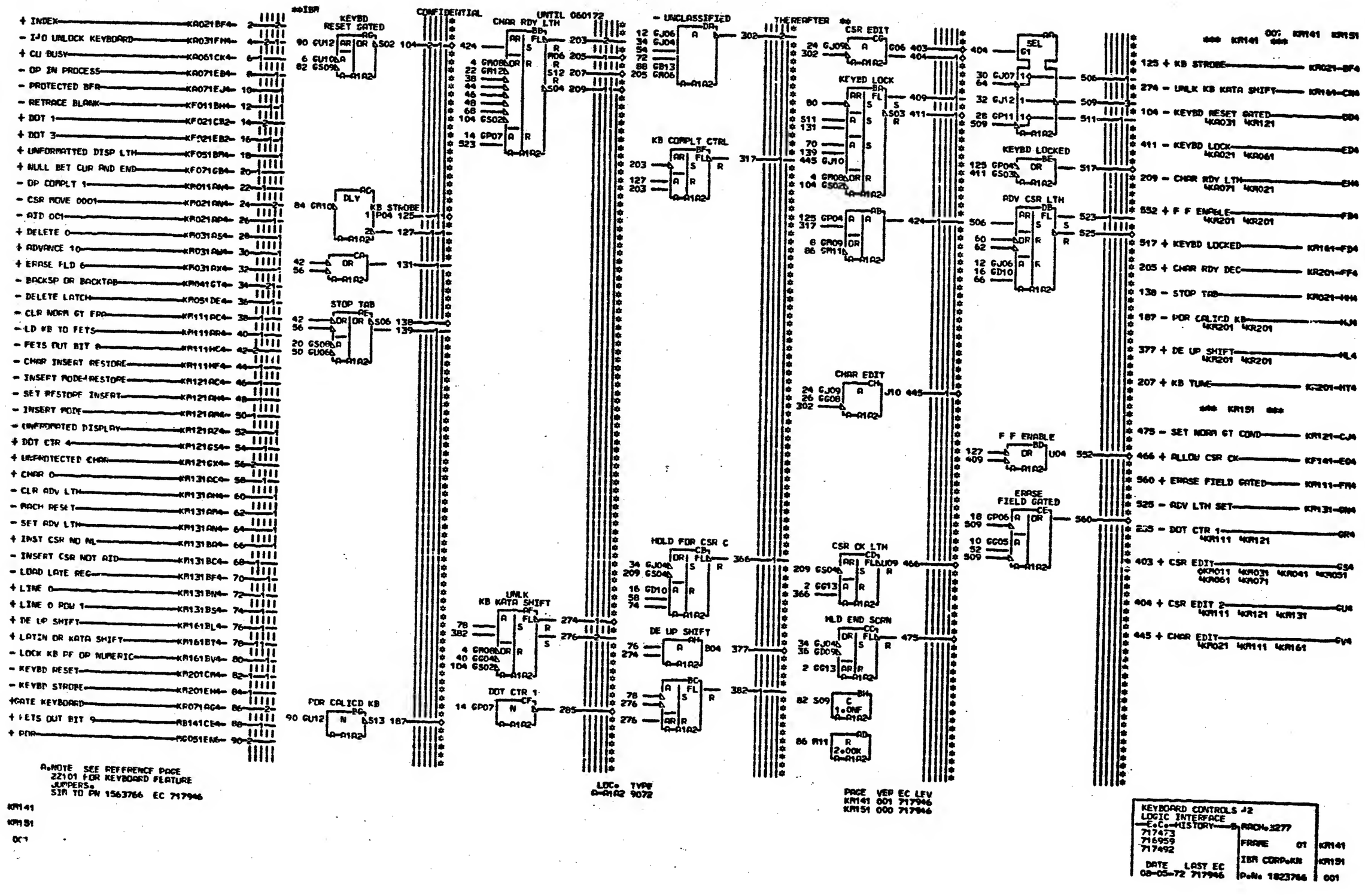
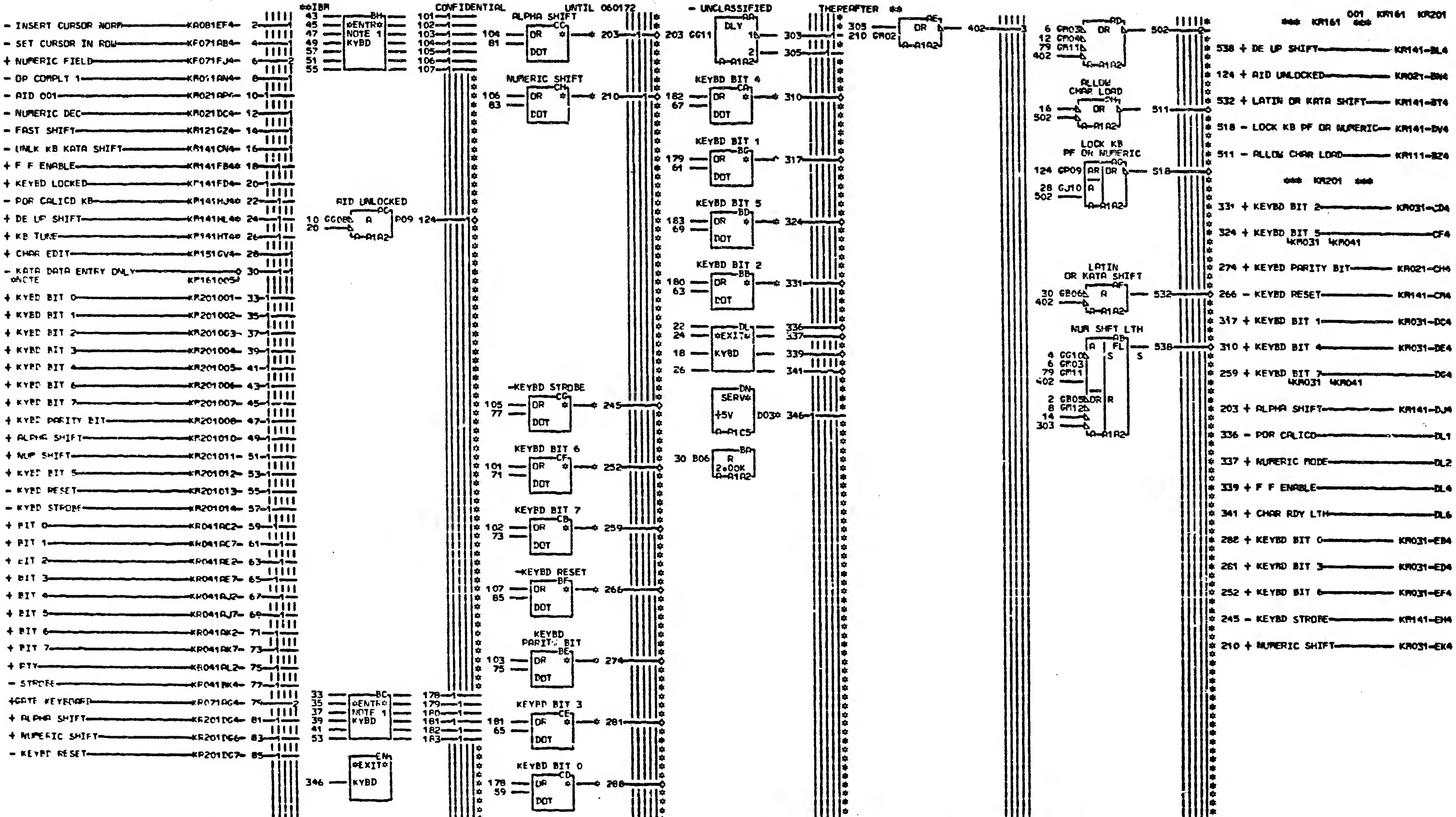
08-05-72 717946
MACH=3277
FRAME 01
IBM CORP.KN
P.N. 1823758
KR051
KR071
000


**IBM
CONFIDENTIAL
- UNCLASSIFIED
THEREAFTER **
UNTIL 060172
INSERT MODE
CHAR INSERT RESTORE
HOLD CSR LATCH
SET INVRD MOD LTH
INSERT CSR NOT AID
INST CSR NO NL
CSR LAST ROW
FETS OUT BIT 8
UNPROTECTED CHAR
MACH RESET
UNFORMATED DISPLAY
SET TAB NUM SKIP
DOT CTR 4
M D T LTH
NORM GATE LTH
CLR NORM GT ERR
ERR FLD LTH
DELETE CSR BIT 9
LINE 0 ROW 1
FAST SHIFT
INSERT MODE/RESTORE
SET INSERT NULL LTH
SET I*CSR KB LD
SEL
CHAR LINE
LOAD LATE REC GT
SET ADV LTH
CLR ADV LTH
SET INSERT NULL LTH
CHAR 0
REG
CHAR IN LTH
LD KB LTH
SET INSERT CSR LTH
LD FETS
SET RESTORE INSERT
NULL IN REG
IN RD MOD LTH
SERVO NOTE
+ INDEX
- HALT L*P CONTROL
- PROTECTED BFR
+ NULL
- INSERT CURSOR NORM
+ DOT 2
+ DOT 3
- DOT 4
+ DOT 5
+ DOT 6
- CHAR 0
- CHAR ALL ONES
+ UNFORMATTED DISP LTH
+ FAST SHIFT LATCH
+ NUMERIC FIELD
+ NULL BET CUR AND END
+ UNPROTECTED CHAR
+ LINE 0
- COND FETS BIT 8
+ RESET
- END SCREEN INPUT
- ROW 1
- DELETE CSR BIT 9
- AID 001
+ BACKSPACE 11
+ NIL 5
+ INSERT 1
- CLR NORM GT LTH
- DELETE LATCH
- SET FOR DELETE
+ SET I*NULL LTH
- RESTORE LAST ROW LTH
- LAST CHAR FILL HOLD
- TAB + SKIP
+ SET I*CSR LTH
+ PUT ADR COMPARE
- KEYPD RESET GATED
- SET NORM GT COMP
+ ERASE FIELD GATED
- ADV LTH SET
- DOT CTR 1
+ CHR EDIT 2
+ CHAR BIT1
- ALLOW CHAR LOAD
+GATE KEYBOARD
+ FETS OUT BIT 8
+ F C SER IP BIT 8
+ F C SER IN BIT 7
+ NULL IN FETS
337 - CLR NORM GT ERR
566 + LD KB TO FETS
468 - SET INSERT NULL LTH
411 - SET I*CSR KB LD
181 - FETS OUT BIT 8
283 - SET TAB NUM SKIP
204 - CHAR INSERT RESTORE
386 - INSERT MODE/RESTORE
267 - MDT LD BIT 7
575 - SET RESTORE INSERT
105 - INSERT MODE
553 - INSERT RD MOD
181 - UNFORMATED DISPLAY
187 + DOT CTR 4
168 + UNPROTECTED CHAR
379 - FAST SHIFT
483 + CHAR 0
456 - CLR ADV LTH
174 - MACH RESET
444 - SET ADV LTH
517 - SET INSERT CSR LTH
244 + INST CSR NO NL
241 - INSERT CSR NOT AID
320 - LOAD LATE REC
431 - LOAD LATE REC GT
366 - DELETE CSR BIT 9
145 + LINE 0
373 + LINE 0 ROW 1
586 - NUL SET FR
A-SIM TO PN 1563762 EC 717946
B-SIM TO PN 1563764 EC 717946
C-NOTE SEE REFERENCE PAGE 72102
IF RPQ AB3653 INSTALLED
SIM TO PN 1563765 EC 717946
KM111
KM131
001
LOC. TYPE
A-A1A2 9072
PAGE VER EC LEV
KM111 001 717946
KM121 001 717946
KM131 001 717946
KEYBOARD CONTROLS J2
E.C.-HISTORY
717473
716959
717492
DATE LAST EC
08-05-72 717946
MACH.3277
FRAME 01
IBM CORP.-N
P.-N. 1823761
KM111
KM131
001


+ INDEX KA021BF4 2
- I/O UNLOCK KEYBOARD KA031FM4 4
+ CU BUSY KA061CK4 6
- DP IN PROCESS KA071EB4 8
- PROTECTED BFR KA071EJ4 10
- RETRACE BLANK KF011BH4 12
+ DOT 1 KF021CB2 14
+ DOT 3 KF021EB2 16
+ UNFORMATTED DISP LTH KF051BF4 18
+ NULL BET CUR AND END KF071GB4 20
- DP COMPLT 1 KP011AN4 22
- CSR MOVE 0001 KP021AN4 24
- AID 001 KP021AP4 26
+ DELETE 0 KP031AS4 28
+ ADVANCE 10 KP031AW4 30
+ ERASE FLD 6 KP031AX4 32
- BACKSP OR BACKTAB KP041GT4 34
- DELETE LATCH KP051DE4 36
- CLR NORM GT FRM KR111BC4 38
- LD #B TO FETS KR111BR4 40
- FETS OUT BIT 8 KR111HC4 42
- CHAR INSERT RESTORE KR111HF4 44
- INSERT MODE RESTORE KR121AC4 46
- SET RESTORE INSERT KR121AH4 48
- INSERT MODE KR121AR4 50
- UNFORMATTED DISPLAY KR121AZ4 52
+ DOT CTR 4 KR121BS4 54
+ UNPROTECTED CHAR KR121GX4 56
+ CHAR 0 KR131AC4 58
- CLR ADV LTH KR131AN4 60
- MACH RESET KR131AR4 62
- SET ADV LTH KR131AV4 64
+ INST CSR NO AL KR131BA4 66
- INSERT CSR NOT AID KR131BC4 68
- LOAD LATE REG KR131BF4 70
+ LINE 0 KR131BN4 72
+ LINE 0 ROW 1 KR131BS4 74
+ DE UP SHIFT KR161BL4 76
+ LATIN OR KATA SHIFT KR161BT4 78
- LOCK KB PF OR NUMERIC KR161BV4 80
- KEYBD RESET KR201CR4 82
- KEYBD STROBE KR201EH4 84
+GATE KEYBOARD KR071AG4 86
+ FETS OUT BIT 9 RB141CB4 88
+ PDR RG051EN4 90
A=NOTE SEE REFERENCE PAGE 22101 FOR KEYBOARD FEATURE JUMPERS. SIM TO PN 1563766 EC 717946
KR141
KR151
001
**IBM
KEYBD RESET GATED
90 GU12 AR OR GS02 104
6 GU10
82 GS09
CONFIDENTIAL
UNTIL 060172
CHAR RDY LTH
424 AR FL 203
4 GR08 OR R
22 GR12 R AR06 205
38 R S12 207
44 46 S S04 209
48 68 R
104 GS02
14 GP07 A R
523
DLY
84 GR10 KB STROBE
1 P04 125
2 127
42 OR 131
56
STOP TAB
42 OR OR GS06 138
56 139
20 GS08
50 GU06
PDR CALICD KB
90 GU12 N GS13 187
UNCLASSIFIED
12 GJ06 302
34 GJ04
56
72
88 GB13
205 GR06
KB COMPLT CTRL
203 AR FL
S
127 A R
203
317
HOLD FOR CSR C
34 GJ04 OR FL 366
209 GS04 S R
16 GD10 A R
58
74
UNLK KB KATA SHIFT
78 A FL 274
382 S R
4 GR08 OR R 276
40 GG04 S
104 GS02
DOT CTR 1
14 GP07 N 285
DE UP SHIFT
76 A 804
274
78 A FL 382
276 S R
276 AR R
THEREAFTER **
CSR EDIT
24 GJ09 A G06 403
302 404
KEYED LOCK
80 AR FL 409
511 A S S03 411
131 S R
70 A S
139
445 GJ10
4 GR08 OR R
104 GS02
125 GP04 A A 424
317
6 GR09 OR
86 GR11
CHAR EDIT
24 GJ09 A
26 GG08 J10 445
302
CSR CK LTH
209 GS04 AR FL U09 466
2 GG13 A R
366
MLD END SCRN
34 GJ04 OR FL 479
36 GD09 S R
2 GG13 AR R
82 S09 C
1=ONE
86 R11 R
2=OOK
404 SEL
30 GJ07 1 506
64
32 GJ12 1 509
28 GP11 1 511
509
KEYBD LOCKED
125 GP04 OR 517
411 GS03
RDY CSR LTH
506 AR FL 523
S
60 OR R 525
62
12 GJ06 A R
16 GD10
66
F F ENABLE
127 OR U04 552
409
ERASE FIELD GATED
18 GP06 A OR 560
509
10 GG05 A
52
509
*** KR141 001 KR141 KR151 ***
125 + KB STROBE KR021-BF4
274 - UNLK KB KATA SHIFT KR161-CM4
104 - KEYBD RESET GATED KA031 KR121 DB4
411 - KEYBD LOCK KA021 KA061 ED4
209 - CHAR RDY LTH KA071 KR021 EM4
552 + F F ENABLE KR201 KR201 FB4
517 + KEYBD LOCKED KR161-FD4
205 + CHAR RDY DEC KR201-FF4
138 - STOP TAB KR021-HH4
187 - PDR CALICD KB KR201 KR201 HJ4
377 + DE UP SHIFT KR201 KR201 HL4
207 + KB TONE KR201-HT4
*** KR151 ***
475 - SET NORM GT COND KR121-CJ4
466 + ALLOW CSR CK KF141-E04
560 + ERASE FIELD GATED KR111-FR4
525 - ADV LTH SET KR131-GN4
229 - DOT CTR 1 KR111 KR121 GR4
403 + CSR EDIT KA011 KR031 KA041 KR051 KA061 KR071 GS4
404 + CSR EDIT 2 KR111 KR121 KR131 GU4
445 + CHAR EDIT KP021 KR111 KR161 GV4
LOC= TYPE
A-A1A2 9072
PAGE VER EC LEV
KR141 001 717946
KR151 000 717946
KEYBOARD CONTROLS J2
LOGIC INTERFACE
E.C.-HISTORY
717473
716959
717492
DATE LAST EC
08-05-72 717946
MACH=3277
FRME 01
IBM CORP=KN
P=N= 1823766
KR141
KR151
001



A=SIM TO PN 1563768 EC 717946
B=NOTE 1 21 SOCKET FOR KYBD
W/O CARD READER
SIM TO PN 1563769 EC 717946

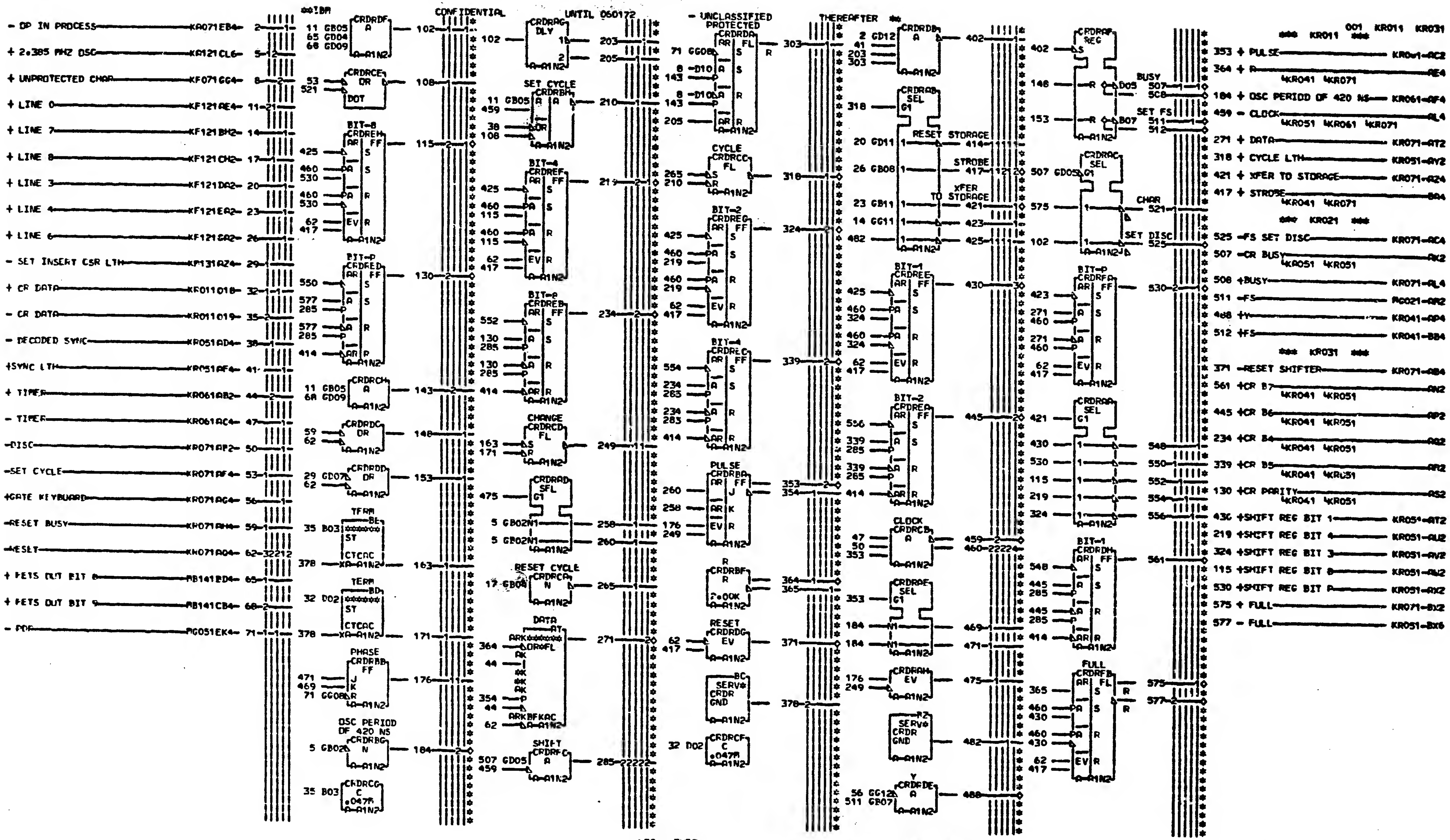
KR161
KR201
001

EDGE CONN.
18 A-A1E6C02 252 A-A1B6E04 01A-A1C6B02 324 A-A1B6D04
22 A-A1C6B02 259 A-A1C6A04 331 A-A1B6A04
24 A-A1B6A02 266 A-A1C6D04 346 A-A1C6C02
26 A-A1C6E02 01A-A1A6B04
203 A-A1A6D02 274 A-A1C6B04
01A-A1L6B02 281 A-A1B6B04
210 A-A1B6B02 288 A-A1A6D04
01A-A1L6E02 310 A-A1B6C04
245 A-A1C6C04 317 A-A1A6E04

LOC. TYPE
A-A1A2 9072

PAGE VER EC LEV
KR161 001 717946
KR201 001 717946

KEYBOARD CONTROLS #2 LOGIC INTERFACE	MACH-3277	
E.C. HISTORY: 717473, 716959, 717492	FRAME 01	KR161
	IBM CORP-KN	KR201
DATE 08-05-72 LAST EC 717946	P.N. 1824193	001



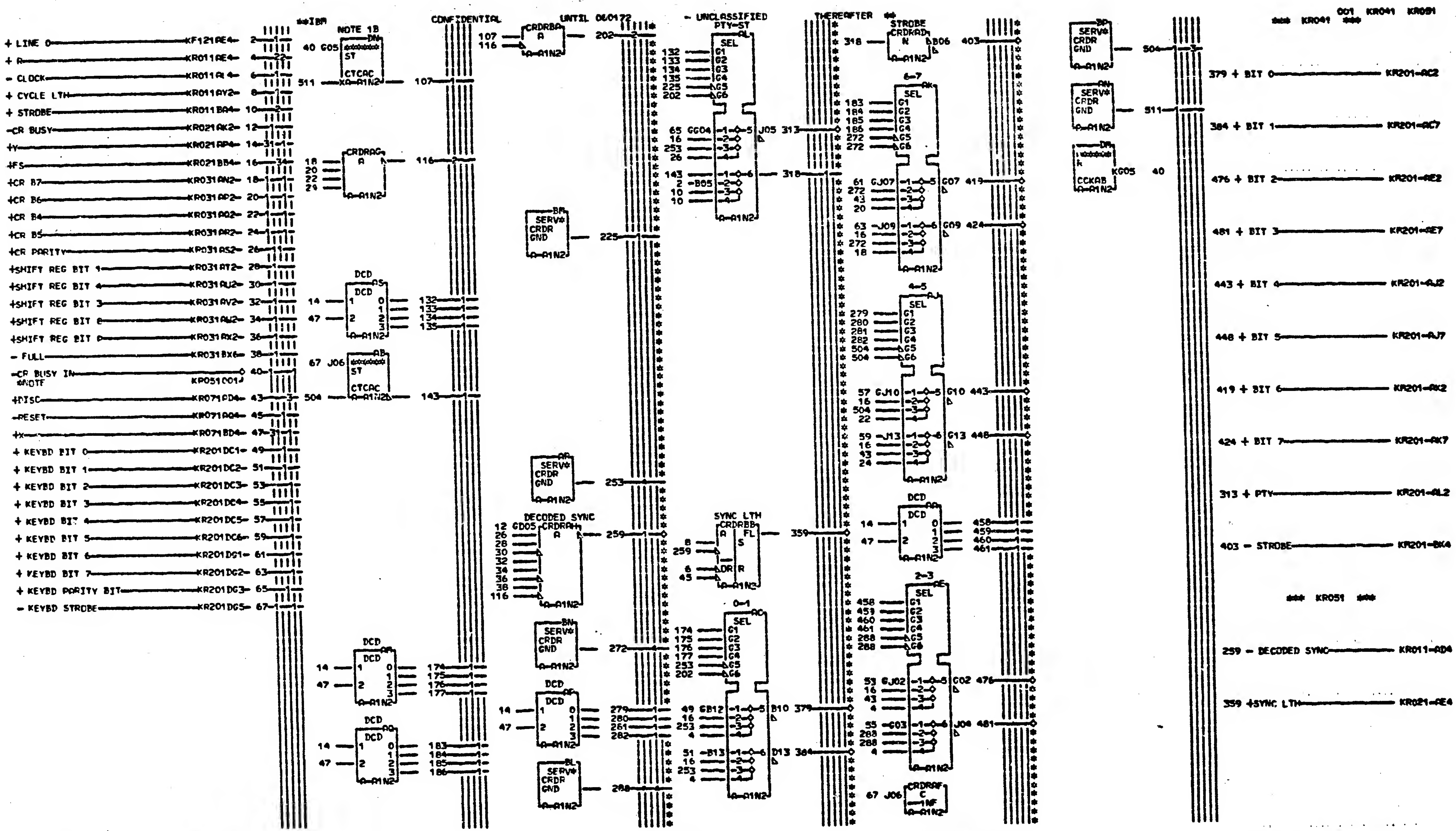
LOC. TYPE
A-A1N2 2229

PAGE	VER	EC LEV
KR011	001	717492
KR021	001	717946
KR031	001	717492

KR011
KR031
001

CARD READER

E.C.-HISTORY	MACH.3277	
717473 716959 717492	FRAME 01	KR011
DATE 08-05-72 LAST EC 717946	IBM CORP.SDD	KR031
	P.N. 1823769	001



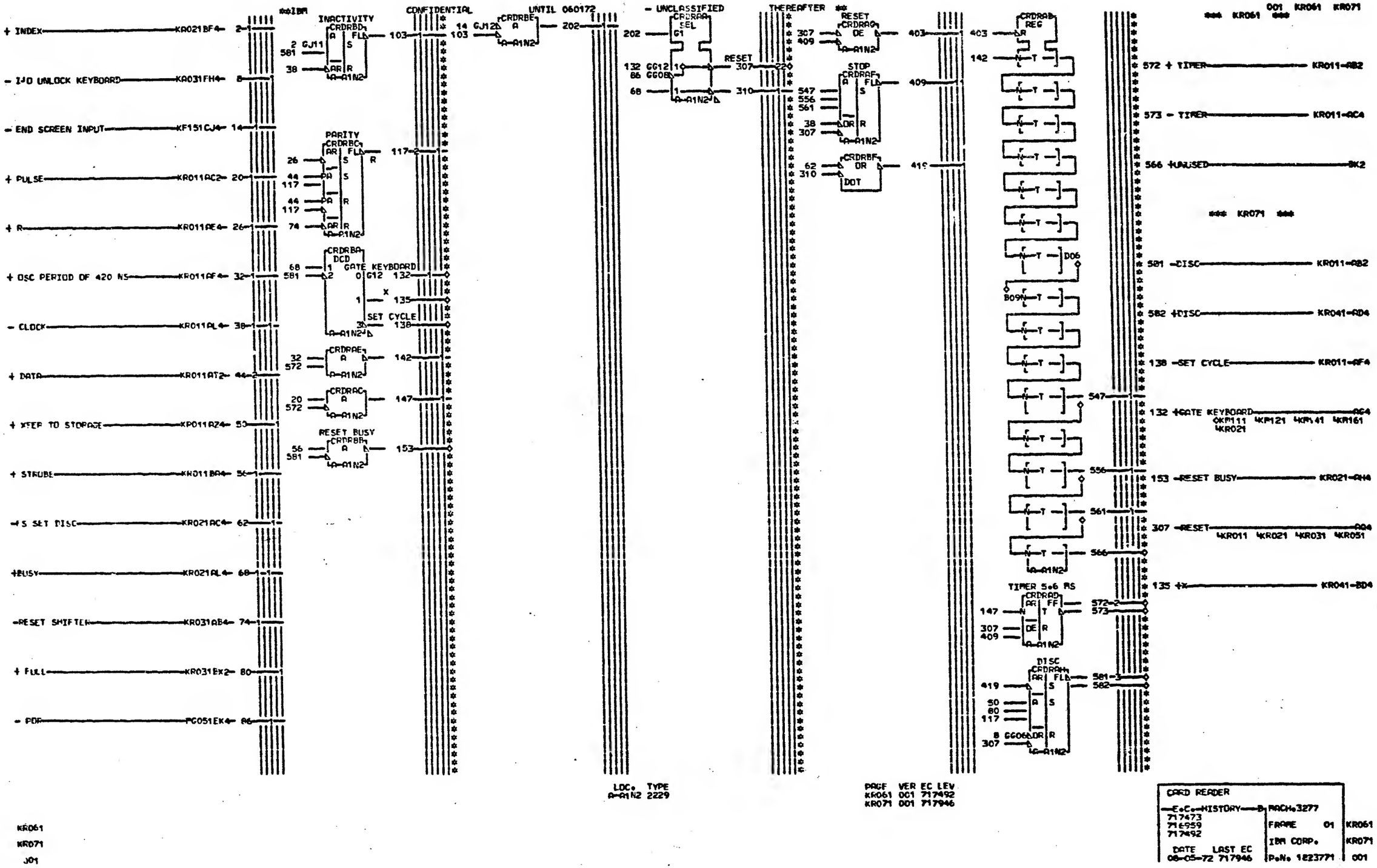
B.NOTE SEE REFERENCE PAGE 22101 FOR CARD READER FEATURE JUMPER

LOC. TYPE
A-A1N2 2229

PAGE	VER	EC LEV
KR041	001	717492
KR051	001	717492

K'41
KR051
001

CARD READER		
E.C. HISTORY 717473 716959	MACH. 3277	
	FRAME 01	KR041
	IBM CORP. SDD	KR051
DATE 06-01-72 LAST EC 717492	P.N. 1823770	001



KR061
KR071
J01

LOC. TYPE
A-A1N2 2229

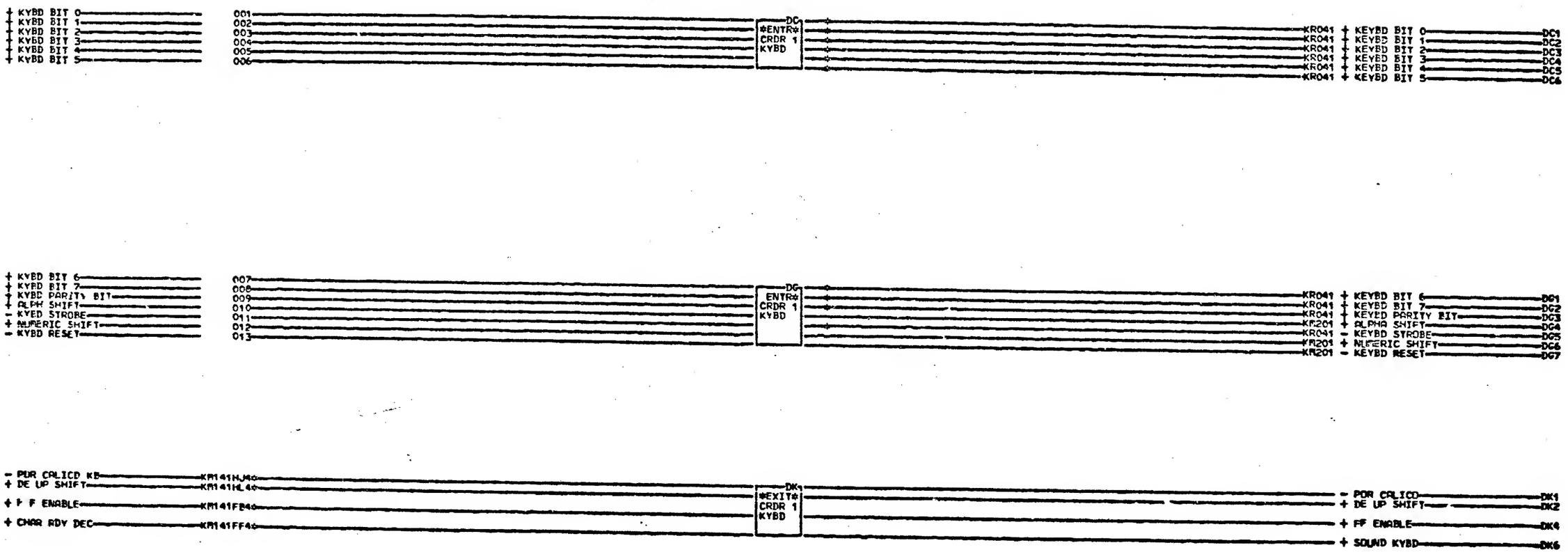
PAGE	VER	EC LEV
KR061	001	717492
KR071	001	717946

CARD READER

E.C.-HISTORY
717473
716959
717492

DATE LAST EC
08-05-72 717946

MACH. 3277
FRAME 01 KR061
IBM CORP. KR071
P.N. 1223771 001



NOTE 1 Z4 SOCKET FOR KYBD WITH CARD READER

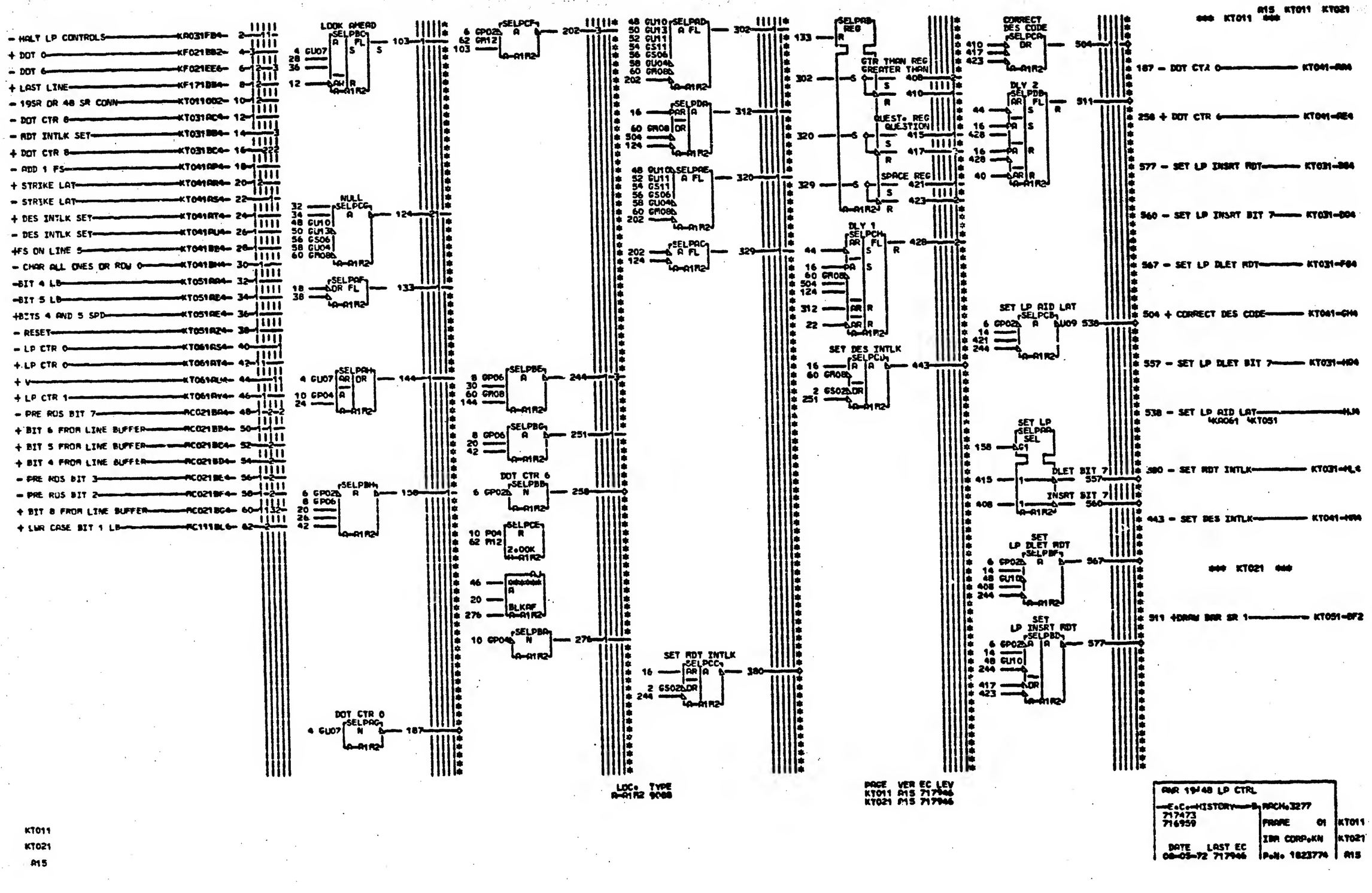
KR141FB4	DC2	A-A1L6C04	01A-A1R6E02		
01A-A1R6A02	DC3	A-A1L6D04	DN4 A-A1N6A02		
KR141FF4	DC4	A-A1L6E04			
01A-A1N6C02	DC5	A-A1R6A04			
KR141HJ4	DC6	A-A1R6B04			
01A-A1R6D02	DG1	A-A1R6C04			
KR141HL4	DG2	A-A1R6D04			
01A-A1L6D02	DG3	A-A1R6E04			
DC1 A-A1L6B04	DG5	A-A1N6A04			

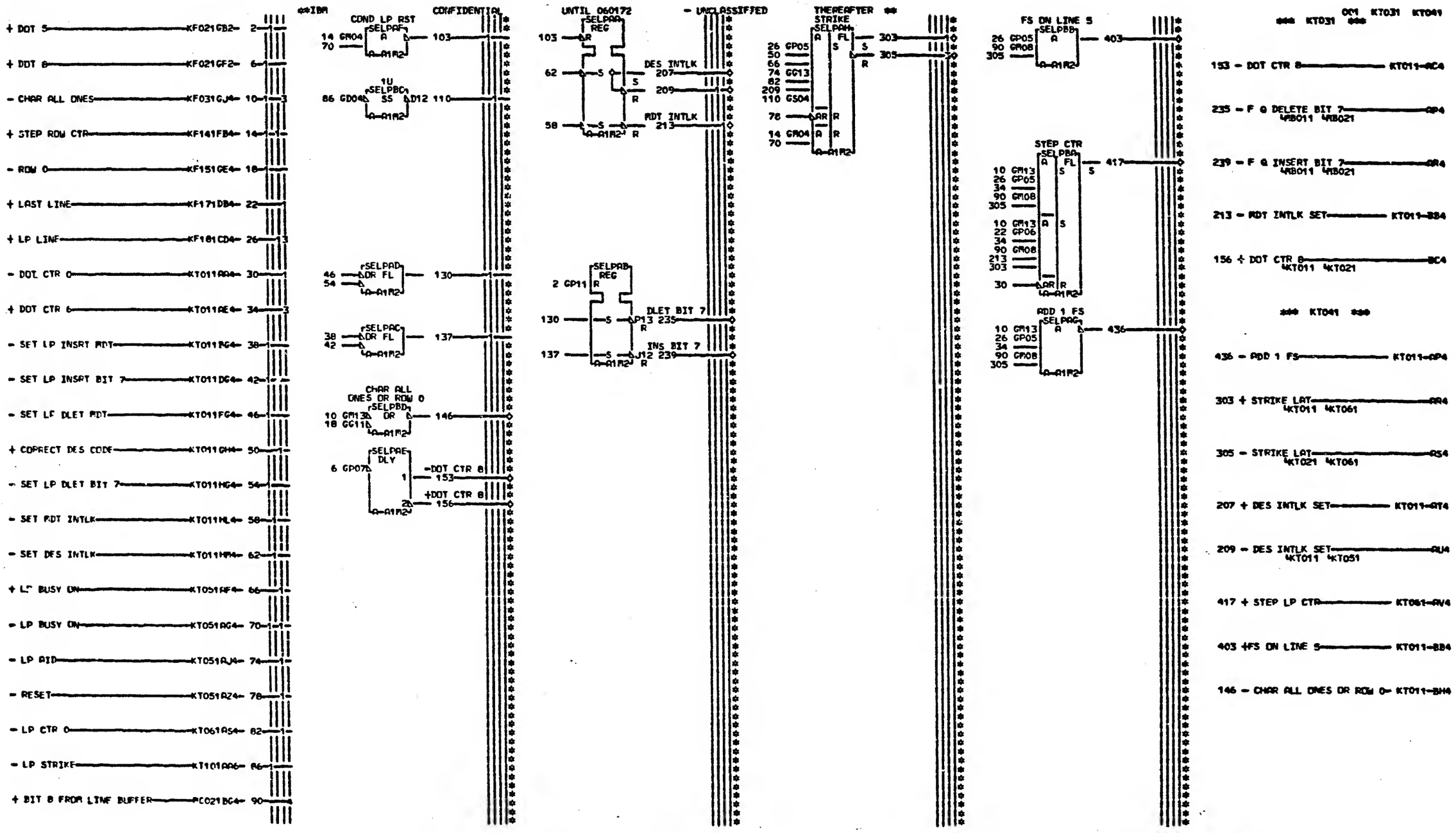
LOC. TYPE

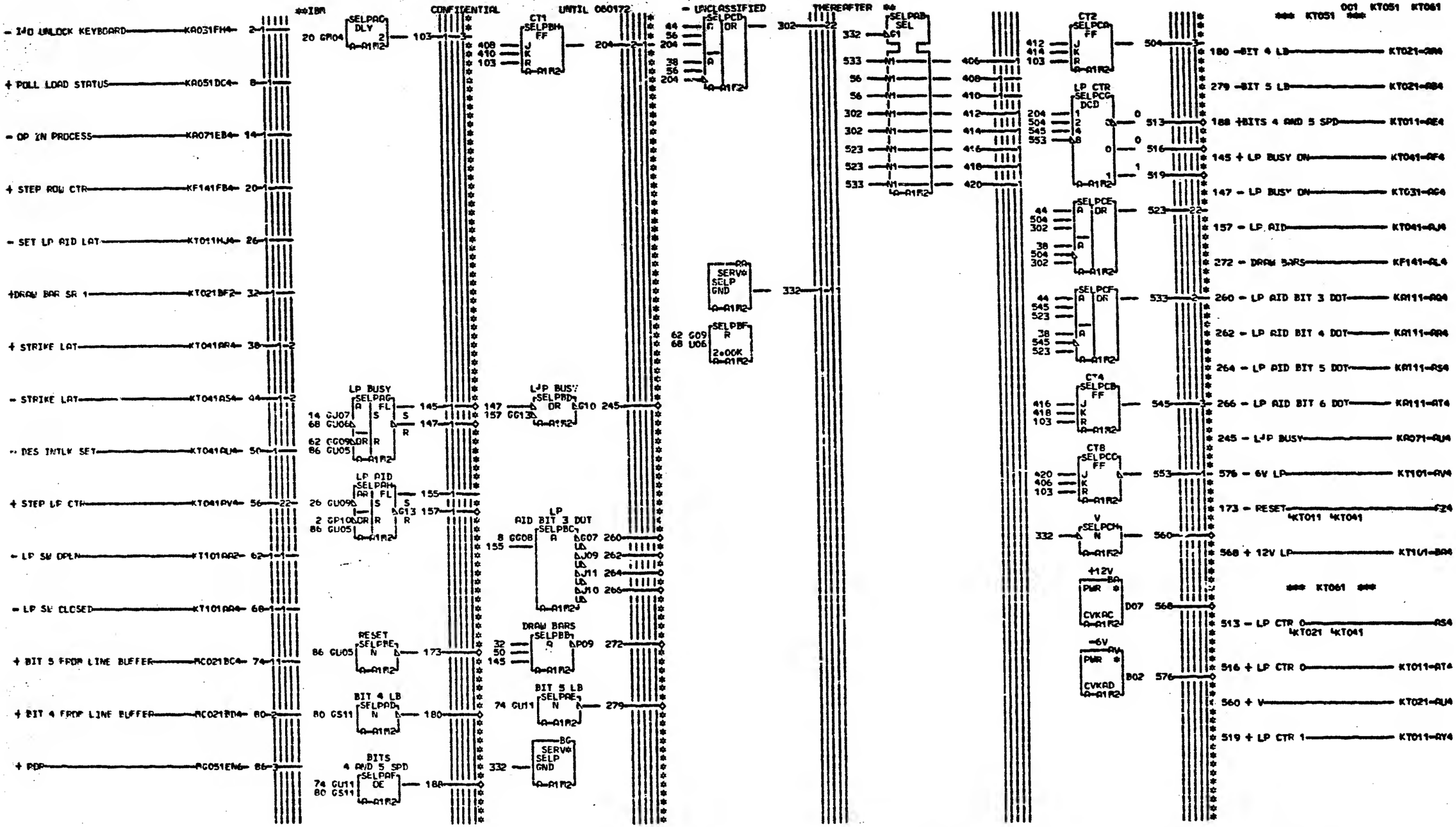
KEYBOARD INTERFACE FOR CR

E.C.-HISTORY-A MACH.3277
717473
FRAME 01
IBM CORP. KN
DCTE LAST EC
02-18-72 716059
P.N. 1823772

KR201 001


A15 KT011 KT021
KT011
KT021
- HALT LP CONTROLS KA031FB4 2
+ DOT 0 KF021BB2 4
- DOT 6 KF021EE6 6
+ LAST LINE KF171BB4 8
- 19SR OR 48 SR CONN KT011GG2 10
- DOT CTR 8 KT031AC4 12
- RDT INTLK SET KT031BB4 14
+ DOT CTR 8 KT031BC4 16
- ADD 1 FS KT041BP4 18
+ STRIKE LAT KT041AR4 20
- STRIKE LAT KT041AS4 22
+ DES INTLK SET KT041AT4 24
- DES INTLK SET KT041AU4 26
+FS ON LINE 5 KT041BB4 28
- CHAR ALL ONES OR ROW 0 KT041BH4 30
-BIT 4 LB KT051AD4 32
-BIT 5 LB KT051AE4 34
+BITS 4 AND 5 SPD KT051AE4 36
- RESET KT051AZ4 38
- LP CTR 0 KT061AS4 40
+ LP CTR 0 KT061AT4 42
+ V KT061AU4 44
+ LP CTR 1 KT061AV4 46
- PRE ROS BIT 7 AC021BA4 48
+ BIT 6 FROM LINE BUFFER AC021BB4 50
+ BIT 5 FROM LINE BUFFER AC021BC4 52
+ BIT 4 FROM LINE BUFFER AC021BD4 54
- PRE ROS BIT 3 AC021BE4 56
- PRE ROS BIT 2 AC021BF4 58
+ BIT 8 FROM LINE BUFFER AC021BG4 60
+ LWR CASE BIT 1 LB AC111BL6 62
LOOK AHEAD
SELPBC
A FL S
4 GU07
28
36
12
AH R
A-A1R2
103
NULL
SELPCC
A
32
34
48 GU10
50 GU13
56 GS06
58 GU04
60 GR08
A-A1R2
124
SELPAF
OR FL
18
38
A-A1R2
133
SELPAH
AR OR
4 GU07
A
10 GP04
24
A-A1R2
144
SELPBH
R
6 GP02
8 GP06
20
26
42
A-A1R2
158
DOT CTR 0
SELPAG
4 GU07
N
A-A1R2
187
SELPCF
6 GP02
62 GR12
A
A-A1R2
202
SELPBE
8 GP06
30
60 GR08
144
A
A-A1R2
244
SELPBG
8 GP06
20
42
A
A-A1R2
251
DOT CTR 6
SELPBB
6 GP02
N
A-A1R2
258
SELPCE
10 P04
62 P12
R
2.00K
A-A1R2
BLKAF
46
20
276
A
A-A1R2
SELPBA
10 GP04
N
A-A1R2
276
48 GU10
50 GU13
52 GU11
54 GS11
56 GS06
58 GU04
60 GR08
202
SELPAD
A FL
A-A1R2
302
SELPDA
AR A
16
60 GR08
504
124
OR
A-A1R2
312
48 GU10
52 GU11
54 GS11
56 GS06
58 GU04
60 GR08
202
SELPAE
A FL
A-A1R2
320
202
124
SELPAC
A FL
A-A1R2
329
SET RDT INTLK
SELPCC
16
2 GS02
244
AR A
DR
A-A1R2
380
SELPAB
REG
R
133
302
S
GTR THAN REG
GREATER THAN
S
R
408
410
320
S
QUEST. REG
QUESTION
S
R
415
417
329
S
SPACE REG
S
R
421
423
A-A1R2
DLY 1
SELPCH
AR FL S R
44
16
60 GR08
504
124
PA S
312
AR R
22
AR R
A-A1R2
428
SET DES INTLK
SELPCU
16
60 GR08
2 GS02
251
A A
DR
A-A1R2
443
SET LP
SELPAA
SEL
158
G1
415
1
408
1
DLET BIT 7
INSRT BIT 7
A-A1R2
557
560
CORRECT
DES CODE
SELPCA
DR
410
417
423
A-A1R2
504
DLY 2
SELPDB
AR FL S R
44
16
428
A
16
428
40
AR R
A-A1R2
511
SET LP AID LAT
SELPCB
6 GP02
14
421
244
A
A-A1R2
U09 538
SET
LP DLET RDT
SELPBF
6 GP02
14
48 GU10
408
244
A
A-A1R2
567
SET
LP INSRT RDT
SELPBD
6 GP02
14
48 GU10
244
417
423
A A
DR
A-A1R2
577
187 - DOT CTR 0 KT041-BB4
258 + DOT CTR 6 KT041-BE4
577 - SET LP INSRT RDT KT031-BB4
560 - SET LP INSRT BIT 7 KT031-BD4
567 - SET LP DLET RDT KT031-BF4
504 + CORRECT DES CODE KT041-GH4
557 - SET LP DLET BIT 7 KT031-HB4
538 - SET LP AID LAT HJ4
KA061 KT051
380 - SET RDT INTLK KT031-HL4
443 - SET DES INTLK KT041-HB4
KT021
511 +DRAW BRR SR 1 KT051-BF2
LOC. TYPE
A-A1R2 9088
PAGE VER EC LEV
KT011 A15 717946
KT021 A15 717946
PNR 19148 LP CTRL
E.C. HISTORY
717473
716959
DATE LAST EC
08-05-72 717946
ARCH. 3277
FRAME 01
IBM CORP. KN
P.N. 1823774
KT011
KT021
A15


**IBM CONFIDENTIAL
- UNCLASSIFIED
+ DOT 5 KF021GB2 2
+ DOT 8 KF021GF2 6
- CHAR ALL ONES KF031GJ4 10
+ STEP ROW CTR KF141FB4 14
- ROW 0 KF151GE4 18
+ LAST LINE KF171DB4 22
+ LP LINE KF181CD4 26
- DOT CTR 0 KT011AA4 30
+ DOT CTR 8 KT011AE4 34
- SET LP INSRT RDT KT011AG4 38
- SET LP INSRT BIT 7 KT011DG4 42
- SET LP DLET RDT KT011FG4 46
+ CORRECT DES CODE KT011GH4 50
- SET LP DLET BIT 7 KT011HG4 54
- SET RDT INTLK KT011HL4 58
- SET DES INTLK KT011HM4 62
+ LP BUSY ON KT051AF4 66
- LP BUSY ON KT051AG4 70
- LP RID KT051AJ4 74
- RESET KT051AZ4 78
- LP CTR 0 KT061AS4 82
- LP STRIKE KT101AA6 86
+ BIT 8 FROM LINE BUFFER PC021BG4 90
COND LP RST
SELPAF
14 GR04
70
A-A1A2
103
1U
SELPBC
86 GD04 SS D12 110
SELPAD
DR FL
46
54
130
SELPAC
38
42
137
CHAR ALL ONES OR ROW 0
SELPBD
10 GM13 DR
18 GG11
146
SELPAE
DLY
6 GP07
1
2
-DOT CTR 8
153
+DOT CTR 8
156
UNTIL 060172
SELPAA
REG
103
62
58
DES INTLK
207
209
RDT INTLK
213
SELPAB
REG
2 GP11
130
137
DLET BIT 7
P13 235
INS BIT 7
J12 239
THEREAFTER **
STRIKE
SELPAH
26 GP05
50
66
74 GG13
82
209
110 GS04
78
14 GR04
70
303
305
FS ON LINE 5
SELPBB
26 GP05
90 GR08
305
403
STEP CTR
SELPBA
10 GM13
26 GP05
34
90 GR08
305
10 GM13
22 GP06
34
90 GR08
213
303
30
417
ADD 1 FS
SELPAG
10 GM13
26 GP05
34
90 GR08
305
436
001 KT031 KT041
*** KT031 ***
153 - DOT CTR 8 KT011-BC4
235 - F Q DELETE BIT 7 4RB011 4RB021 BP4
239 - F Q INSERT BIT 7 4RB011 4RB021 BR4
213 - RDT INTLK SET KT011-BB4
156 + DOT CTR 8 4KT011 4KT021 BC4
*** KT041 ***
436 - ADD 1 FS KT011-BP4
303 + STRIKE LAT 4KT011 4KT061 BR4
305 - STRIKE LAT 4KT021 4KT061 BS4
207 + DES INTLK SET KT011-BT4
209 - DES INTLK SET 4KT011 4KT051 BU4
417 + STEP LP CTR KT061-AV4
403 +FS ON LINE 5 KT011-BB4
146 - CHAR ALL ONES OR ROW 0 KT011-BH4
LOC. TYPE
A-A1A2 9088
PAGE VER EC LEV
KT031 001 717473
KT041 001 717946
ANR 19748 LP CTRL
-E.C.-HISTORY- RAC#3277
717473
FRAME 01 KT031
IBM CORP.KN KT041
DATE LAST EC
08-05-72 717946
P.N. 1823776 001
KT031
KT041



LOC. TYPE
A-A1R2 9088

PAGE	VER EC	LEV
KT051	001	717946
KT061	001	717473

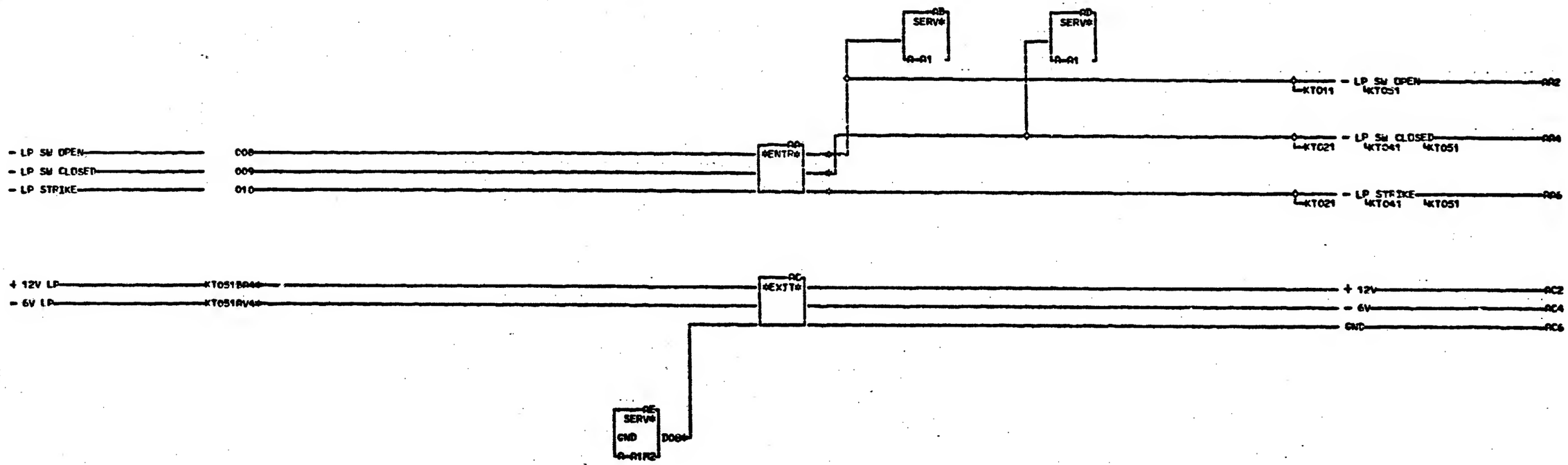
KT051
KT061
001

PAR 19148 LP CTRL

E.C.	HISTORY	B.
717473		
716959		
717492		

DATE LAST EC
08-05-72 717946

RACH. 3277
FRAME 01 KT051
IBR CORP. KN KT061
P.N. 1823780 001



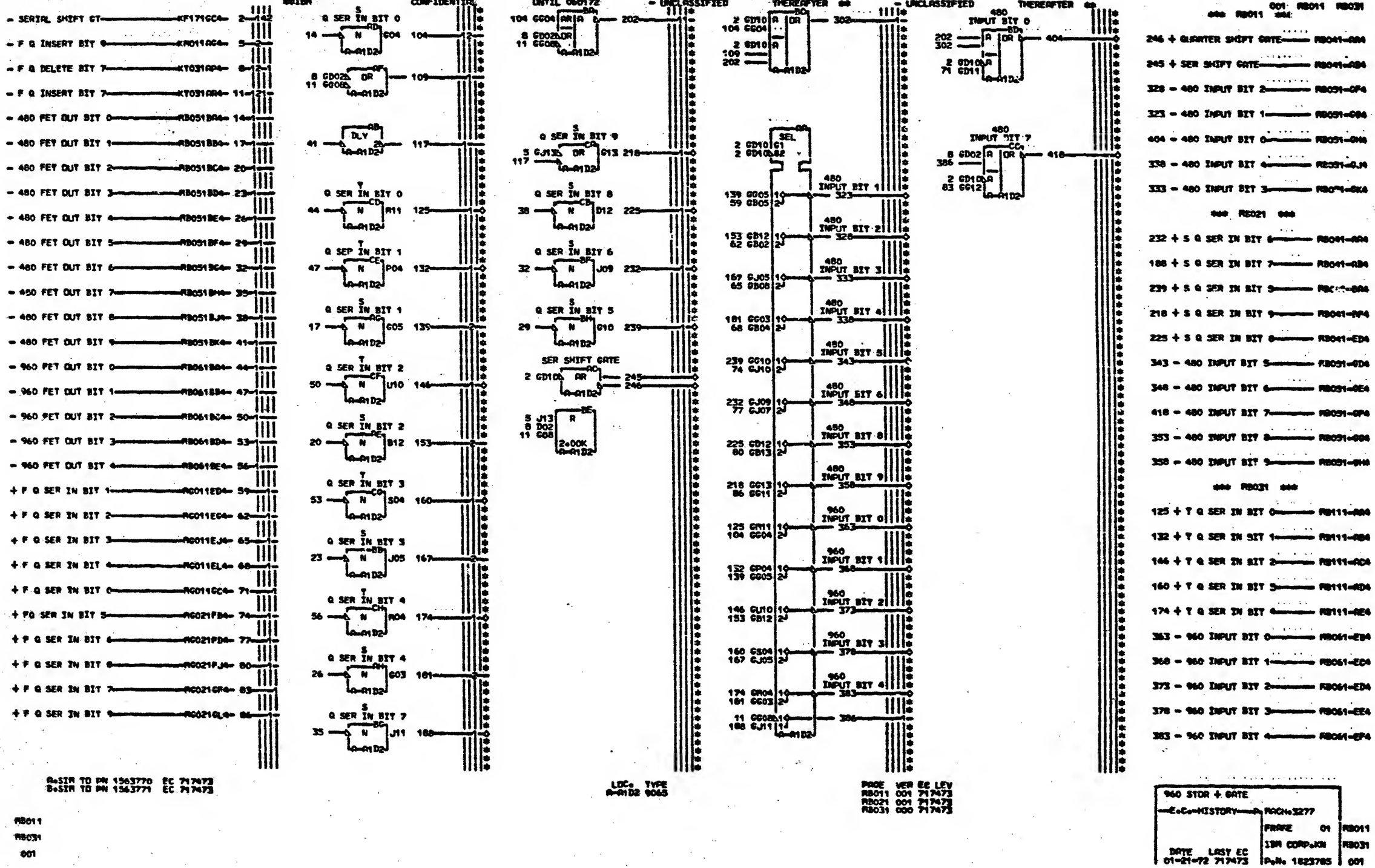
KT051AV4 AE4 A-A1A1B13
01A-A1A1D13 01A-A1A1A11
KT051BA4
01A-A1L1C13
AA2 A-A1A1C13
01A-A1A1B11
AA4 A-A1L1E13
01A-A1L1B11
AA6 A-A1L1B13

LOC. TYPE

SELECTOR PEN INTERFACE LINES

E.C.-HISTORY-B. MACH.3277
717473
FRAME 01
IBM CORP. SDD
DATE LAST EC
06-01-72 717492
P.N. 1823783

KT101 001


**IBM CONFIDENTIAL
- SERIAL SHIFT GT KF171GC4 2 142
- F Q INSERT BIT 9 KR011AC4 5 2
- F Q DELETE BIT 7 KT031AP4 8 21
- F Q INSERT BIT 7 KT031AR4 11 21
- 480 FET OUT BIT 0 RB051BR4 14
- 480 FET OUT BIT 1 RB051BB4 17
- 480 FET OUT BIT 2 RB051BC4 20
- 480 FET OUT BIT 3 RB051BD4 23
- 480 FET OUT BIT 4 RB051BE4 26
- 480 FET OUT BIT 5 RB051BF4 29
- 480 FET OUT BIT 6 RB051BG4 32
- 480 FET OUT BIT 7 RB051BH4 35
- 480 FET OUT BIT 8 RB051BJ4 38
- 480 FET OUT BIT 9 RB051BK4 41
- 960 FET OUT BIT 0 RB061BD4 44
- 960 FET OUT BIT 1 RB061BB4 47
- 960 FET OUT BIT 2 RB061BC4 50
- 960 FET OUT BIT 3 RB061BD4 53
- 960 FET OUT BIT 4 RB061BE4 56
+ F Q SER IN BIT 1 RG011ED4 59
+ F Q SER IN BIT 2 RG011EG4 62
+ F Q SER IN BIT 3 RG011EJ4 65
+ F Q SER IN BIT 4 RG011EL4 68
+ F Q SER IN BIT 0 RG011GC4 71
+ FQ SER IN BIT 5 RG021FB4 74
+ F Q SER IN BIT 6 RG021FD4 77
+ F Q SER IN BIT 8 RG021FJ4 80
+ F Q SER IN BIT 7 RG021GF4 83
+ F Q SER IN BIT 9 RG021GL4 86
S Q SER IN BIT 0 N G04 104 2
8 GD02 OR 11 GG06 109
DLY 41 117
T Q SER IN BIY 0 N A11 125
T Q SEP IN BIT 1 N P04 132
S Q SER IN BIT 1 N G05 135
T Q SER IN BIT 2 N U10 146
S Q SER IN BIT 2 N B12 153
T Q SER IN BIT 3 N S04 160
S Q SER IN BIT 3 N J05 167
T Q SER IN BIT 4 N R04 174
S Q SER IN BIT 4 N G03 181
S Q SER IN BIT 7 N J11 188
UNTIL 060172
104 GG04 202
8 GD02 OR 11 GG06
S Q SER IN BIT 9 5 GJ13 OR 117 G13 218
S Q SER IN BIT 8 N D12 225
S Q SER IN BIT 6 N J09 232
S Q SER IN BIT 5 N G10 239
SER SHIFT GATE 2 GD10 245 246
5 J13 R 8 D02 11 G08 2.00K
- UNCLASSIFIED
THEREAFTER **
2 GD10 OR 104 GG04 302
2 GD10 109 202
SEL 2 GD10 2 GD10
480 INPUT BIT 1 139 GG05 59 GB05 323
480 INPUT BIT 2 153 GB12 62 GB02 328
480 INPUT BIT 3 167 GJ05 65 GB08 333
480 INPUT BIT 4 181 GG03 68 GB04 338
480 INPUT BIT 5 239 GG10 74 GJ10 343
480 INPUT BIT 6 232 GJ09 77 GJ07 348
480 INPUT BIT 8 225 GD12 80 GB13 353
480 INPUT BIT 9 218 GG13 86 GG11 358
960 INPUT BIT 0 125 GM11 104 GG04 363
960 INPUT BIT 1 132 GP04 139 GG05 368
960 INPUT BIT 2 146 GJ10 153 GB12 373
960 INPUT BIT 3 160 GS04 167 GJ05 378
960 INPUT BIT 4 174 GR04 181 GG03 383
11 GG08 188 GJ11 386
480 INPUT BIT 0 202 302 2 GD10 71 GD11 404
480 INPUT BIT 7 8 GD02 386 2 GD10 83 GG12 418
001 RB011 RB031
*** RB011 ***
246 + QUARTER SHIFT GATE RB041-GB4
245 + SER SHIFT GATE RB041-GB4
328 = 480 INPUT BIT 2 RB031-GP4
323 = 480 INPUT BIT 1 RB031-GB4
404 = 480 INPUT BIT 0 RB031-GM4
338 = 480 INPUT BIT 4 RB031-GJ4
333 = 480 INPUT BIT 3 RB031-GK4
*** RB021 ***
232 + S Q SER IN BIT 6 RB041-AR4
188 + S Q SER IN BIT 7 RB041-AB4
239 + S Q SER IN BIT 9 RB041-BR4
218 + S Q SER IN BIT 9 RB041-BP4
225 + S Q SER IN BIT 8 RB041-BD4
343 = 480 INPUT BIT 5 RB031-GD4
348 = 480 INPUT BIT 6 RB031-GE4
418 = 480 INPUT BIT 7 RB031-GF4
353 = 480 INPUT BIT 8 RB031-GG4
358 = 480 INPUT BIT 9 RB031-GH4
*** RB031 ***
125 + T Q SER IN BIT 0 RB111-AB4
132 + T Q SER IN BIT 1 RB111-AB4
146 + T Q SER IN BIT 2 RB111-AC4
160 + T Q SER IN BIT 3 RB111-AD4
174 + T Q SER IN BIT 4 RB111-AE4
363 = 960 INPUT BIT 0 RB061-EB4
368 = 960 INPUT BIT 1 RB061-EC4
373 = 960 INPUT BIT 2 RB061-ED4
378 = 960 INPUT BIT 3 RB061-EE4
383 = 960 INPUT BIT 4 RB061-EF4
960 STOR + GATE
E.C.C.-HISTORY
MACH=3277
FRAME 01 RB011
IBM CORP.KN RB031
DATE LASY EC
01-21-72 717473
P.N. 1823785 001
A=SIR TO PN 1963770 EC 717473
B=SIR TO PN 1963771 EC 717473
LOC. TYPE
A-A1D2 9065
PAGE VER EC LEV
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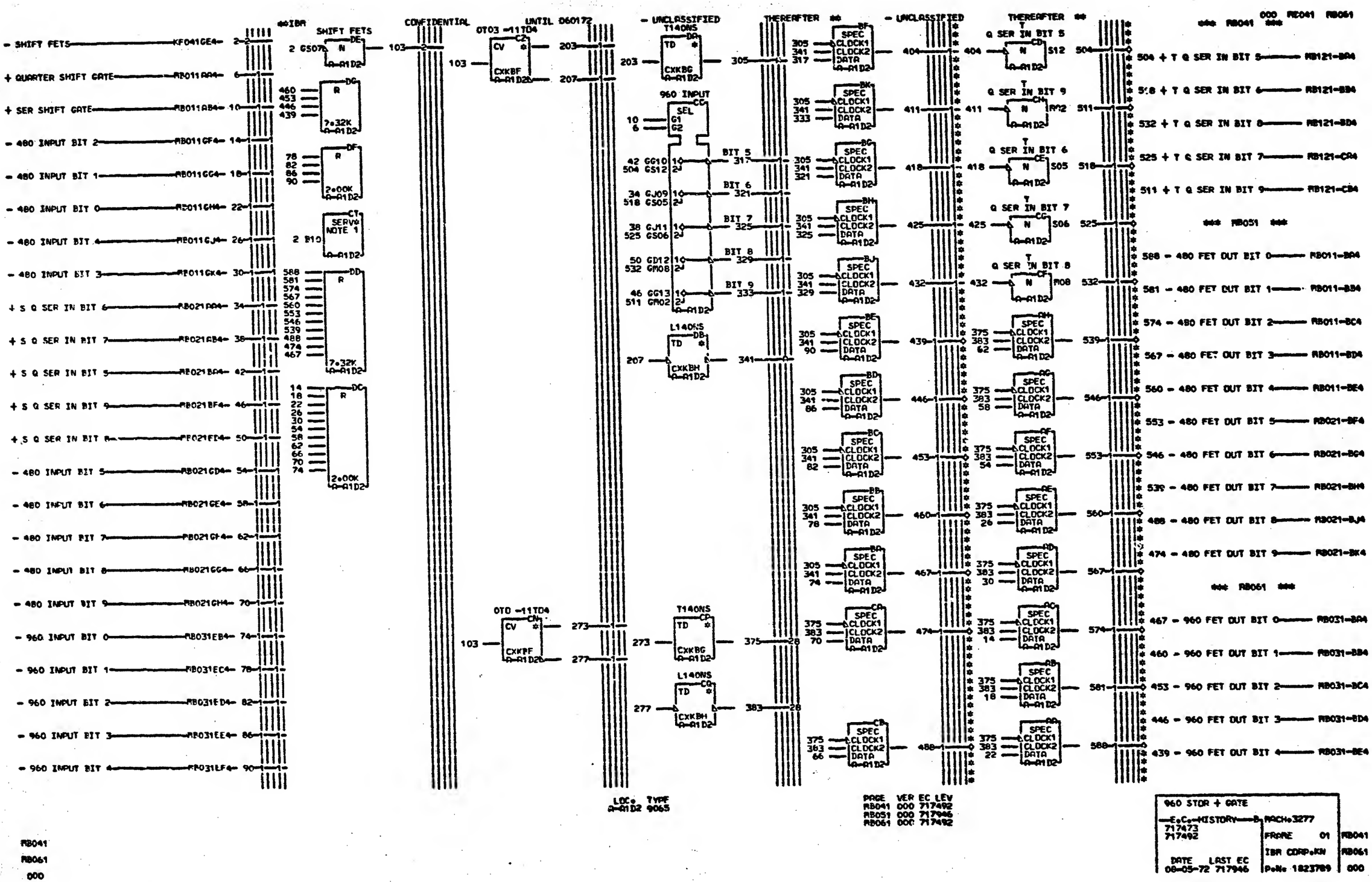
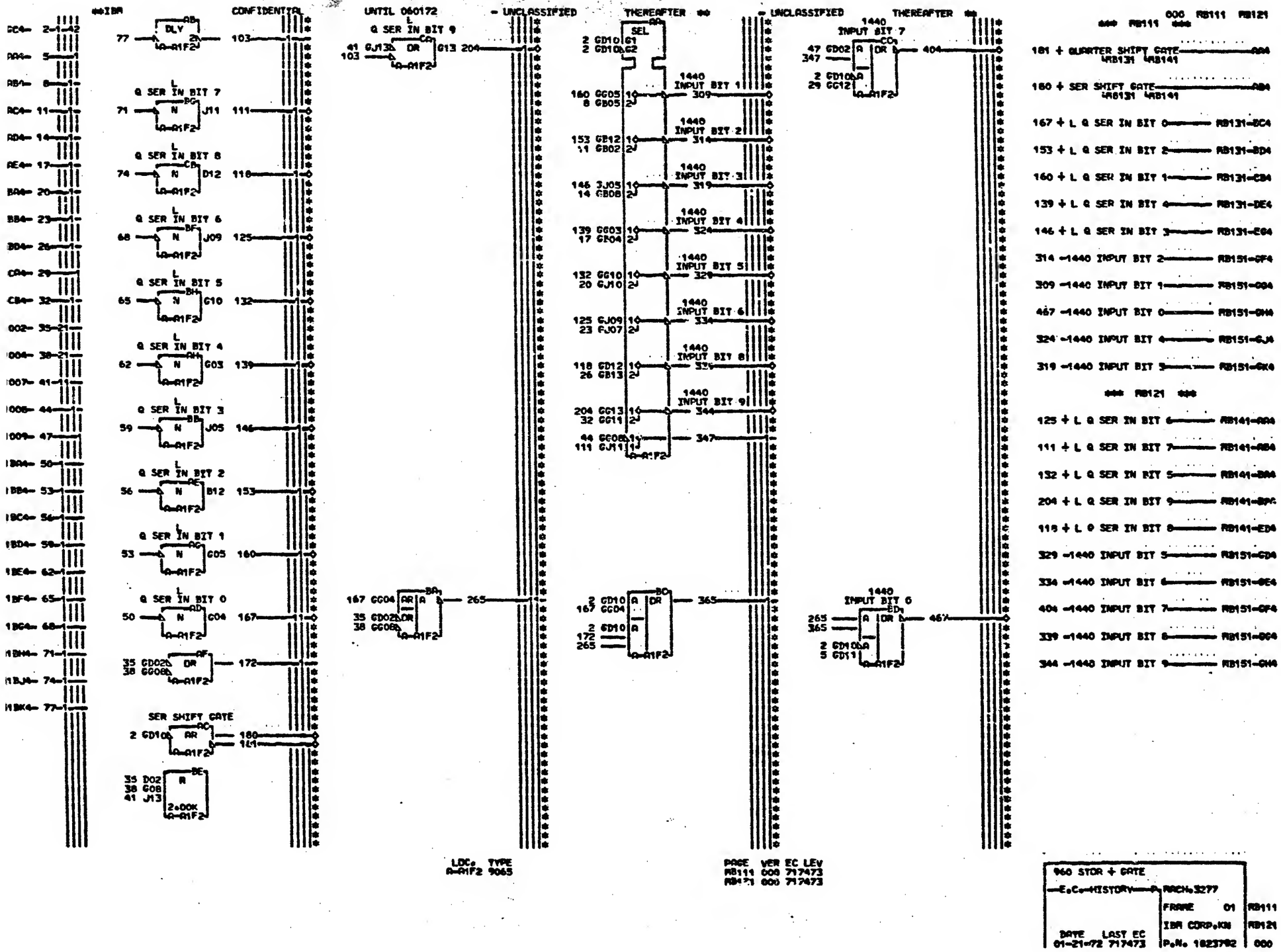
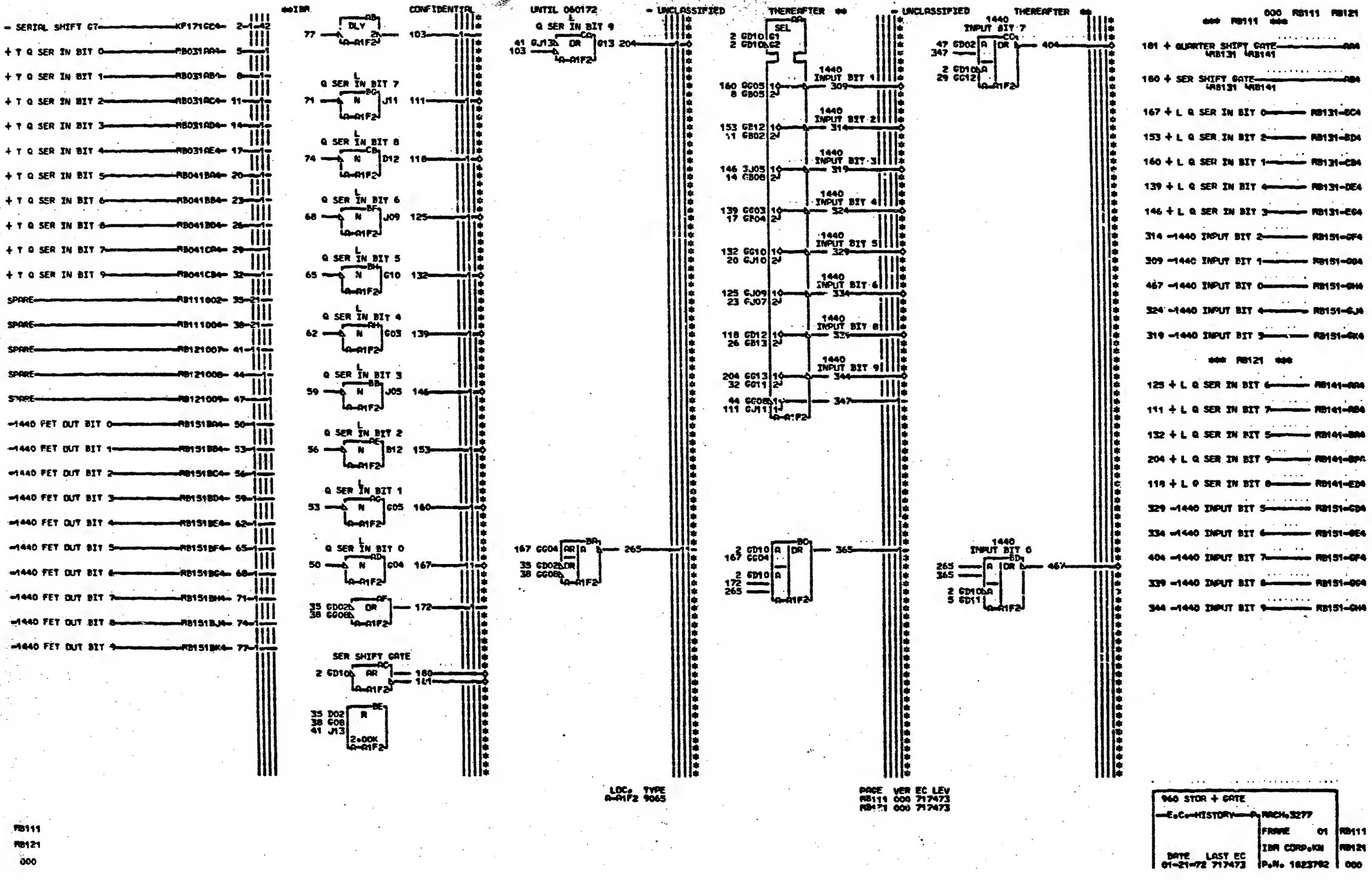
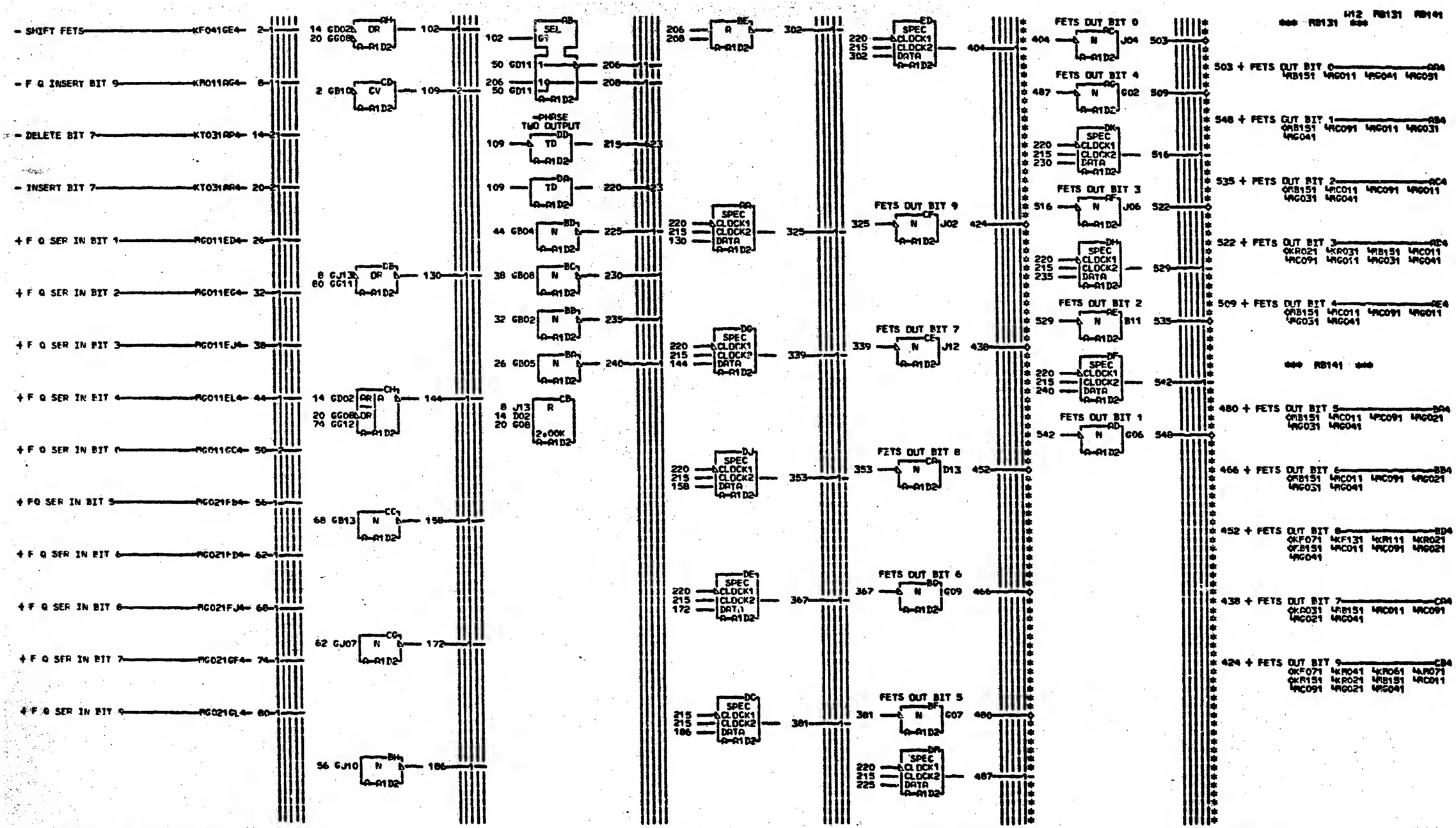
RB021 001 717473
RB031 000 717473
RB011
RB031
001


**IBR
SHIFT FETS
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
- SHIFT FETS
+ QUARTER SHIFT GATE
+ SER SHIFT GATE
- 480 INPUT BIT 2
- 480 INPUT BIT 1
- 480 INPUT BIT 0
- 480 INPUT BIT 4
- 480 INPUT BIT 3
+ S Q SER IN BIT 6
+ S Q SER IN BIT 7
+ S Q SER IN BIT 5
+ S Q SER IN BIT 9
+ S Q SER IN BIT 8
- 480 INPUT BIT 5
- 480 INPUT BIT 6
- 480 INPUT BIT 7
- 480 INPUT BIT 8
- 480 INPUT BIT 9
- 960 INPUT BIT 0
- 960 INPUT BIT 1
- 960 INPUT BIT 2
- 960 INPUT BIT 3
- 960 INPUT BIT 4
T Q SER IN BIT 5
T Q SER IN BIT 9
T Q SER IN BIT 6
T Q SER IN BIT 7
T Q SER IN BIT 8
960 INPUT
BIT 5
BIT 6
BIT 7
BIT 8
BIT 9
SERVO NOTE 1
*** RB041 ***
*** RB051 ***
*** RB061 ***
504 + T Q SER IN BIT 5
518 + T Q SER IN BIT 6
532 + T Q SER IN BIT 8
525 + T Q SER IN BIT 7
511 + T Q SER IN BIT 9
588 - 480 FET OUT BIT 0
581 - 480 FET OUT BIT 1
574 - 480 FET OUT BIT 2
567 - 480 FET OUT BIT 3
560 - 480 FET OUT BIT 4
553 - 480 FET OUT BIT 5
546 - 480 FET OUT BIT 6
539 - 480 FET OUT BIT 7
488 - 480 FET OUT BIT 8
474 - 480 FET OUT BIT 9
467 - 960 FET OUT BIT 0
460 - 960 FET OUT BIT 1
453 - 960 FET OUT BIT 2
446 - 960 FET OUT BIT 3
439 - 960 FET OUT BIT 4
LOC. TYPE
A-A1D2 9065
PAGE VER EC LEV
RB041 000 717492
RB051 000 717946
RB061 000 717492
960 STOR + GATE
E.C.-HISTORY
717473
717492
DATE LAST EC
08-05-72 717946
MACH.3277
FRAME 01
IBR CORP.KN
P.N. 1823789
RB041
RB061
000


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
1440 INPUT BIT 7
1440 INPUT BIT 6
SER SHIFT GATE
Q SER IN BIT 9
Q SER IN BIT 8
Q SER IN BIT 7
Q SER IN BIT 6
Q SER IN BIT 5
Q SER IN BIT 4
Q SER IN BIT 3
Q SER IN BIT 2
Q SER IN BIT 1
Q SER IN BIT 0
1440 INPUT BIT 1
1440 INPUT BIT 2
1440 INPUT BIT 3
1440 INPUT BIT 4
1440 INPUT BIT 5
1440 INPUT BIT 6
1440 INPUT BIT 8
1440 INPUT BIT 9
000 RB111 RB121
*** RB111 ***
181 + QUARTER SHIFT GATE
180 + SER SHIFT GATE
167 + L Q SER IN BIT 0
153 + L Q SER IN BIT 2
160 + L Q SER IN BIT 1
139 + L Q SER IN BIT 4
146 + L Q SER IN BIT 3
314 -1440 INPUT BIT 2
309 -1440 INPUT BIT 1
467 -1440 INPUT BIT 0
324 -1440 INPUT BIT 4
319 -1440 INPUT BIT 3
*** RB121 ***
125 + L Q SER IN BIT 6
111 + L Q SER IN BIT 7
132 + L Q SER IN BIT 5
204 + L Q SER IN BIT 9
118 + L Q SER IN BIT 8
329 -1440 INPUT BIT 5
334 -1440 INPUT BIT 6
404 -1440 INPUT BIT 7
339 -1440 INPUT BIT 8
344 -1440 INPUT BIT 9
LOC. TYPE
A-A1F2 9065
PAGE VER EC LEV
RB111 000 717473
RB121 000 717473
960 STOR + GATE
E.C.-HISTORY
ARCH. 3277
FRAME 01
IBM CORP. KN
P.N. 1823792
DATE LAST EC
01-21-72 717473


IBM
CONFIDENTIAL
UNTIL 060172
UNCLASSIFIED
THEREAFTER
SERIAL SHIFT CT
T Q SER IN BIT 0
T Q SER IN BIT 1
T Q SER IN BIT 2
T Q SER IN BIT 3
T Q SER IN BIT 4
T Q SER IN BIT 5
T Q SER IN BIT 6
T Q SER IN BIT 8
T Q SER IN BIT 7
T Q SER IN BIT 9
SPARE
SPARE
SPARE
SPARE
SPARE
-1440 FET OUT BIT 0
-1440 FET OUT BIT 1
-1440 FET OUT BIT 2
-1440 FET OUT BIT 3
-1440 FET OUT BIT 4
-1440 FET OUT BIT 5
-1440 FET OUT BIT 6
-1440 FET OUT BIT 7
-1440 FET OUT BIT 8
-1440 FET OUT BIT 9
Q SER IN BIT 7
Q SER IN BIT 8
Q SER IN BIT 6
Q SER IN BIT 5
Q SER IN BIT 4
Q SER IN BIT 3
Q SER IN BIT 2
Q SER IN BIT 1
Q SER IN BIT 0
SER SHIFT GATE
1440 INPUT BIT 1
1440 INPUT BIT 2
1440 INPUT BIT 3
1440 INPUT BIT 4
1440 INPUT BIT 5
1440 INPUT BIT 6
1440 INPUT BIT 8
1440 INPUT BIT 9
1440 INPUT BIT 7
1440 INPUT BIT 0
LOC. TYPE
A-A1F2 9065
PAGE VER EC LEV
RB111 000 717473
RB121 000 717473

RB111 RB121
000
1440 INPUT BIT 1
1440 INPUT BIT 2
1440 INPUT BIT 3
1440 INPUT BIT 4
1440 INPUT BIT 5
1440 INPUT BIT 6
1440 INPUT BIT 8
1440 INPUT BIT 9
1440 INPUT BIT 7
1440 INPUT BIT 0
QUARTER SHIFT GATE
SER SHIFT GATE
L Q SER IN BIT 0
L Q SER IN BIT 2
L Q SER IN BIT 1
L Q SER IN BIT 4
L Q SER IN BIT 3
-1440 INPUT BIT 2
-1440 INPUT BIT 1
-1440 INPUT BIT 0
-1440 INPUT BIT 4
-1440 INPUT BIT 3
L Q SER IN BIT 6
L Q SER IN BIT 7
L Q SER IN BIT 5
L Q SER IN BIT 9
L Q SER IN BIT 8
-1440 INPUT BIT 5
-1440 INPUT BIT 6
-1440 INPUT BIT 7
-1440 INPUT BIT 8
-1440 INPUT BIT 9
960 STOR + GATE
E.C. HISTORY
MACH. 3277
FRAME 01
IBM CORP. KN
P.N. 1823792
DATE LAST EC
01-21-72 717473


- SHIFT FETS
- F Q INSERT BIT 9
- DELETE BIT 7
- INSERT BIT 7
+ F Q SER IN BIT 1
+ F Q SER IN BIT 2
+ F Q SER IN BIT 3
+ F Q SER IN BIT 4
+ F Q SER IN BIT 0
+ FQ SER IN BIT 5
+ F Q SER IN BIT 6
+ F Q SER IN BIT 8
+ F Q SER IN BIT 7
+ F Q SER IN BIT 9
-PHASE TWO OUTPUT
FETS OUT BIT 0
FETS OUT BIT 4
FETS OUT BIT 3
FETS OUT BIT 2
FETS OUT BIT 1
FETS OUT BIT 9
FETS OUT BIT 7
FETS OUT BIT 8
FETS OUT BIT 6
FETS OUT BIT 5
503 + FETS OUT BIT 0
548 + FETS OUT BIT 1
535 + FETS OUT BIT 2
522 + FETS OUT BIT 3
509 + FETS OUT BIT 4
480 + FETS OUT BIT 5
466 + FETS OUT BIT 6
452 + FETS OUT BIT 8
438 + FETS OUT BIT 7
424 + FETS OUT BIT 9
480 STORAGE BITS 0-4
A-SIM TO PN 1563778 EC 717473
B-SIM TO PN 1563779 EC 717946
LOC= TYPE
A-A1D2 9057
PAGE VER EC LEV
RB131 A12 717946
RB141 A12 717946
RB131
RB141
A12

**IBR

+ QUARTER SHIFT GATE — RB111AA4 — 2
+ SER SHIFT GATE — RB111AB4 — 6
+ L Q SER IN BIT 0 — RB111BC4 — 10
+ L Q SER IN BIT 2 — RB111BD4 — 14
+ L Q SER IN BIT 1 — RB111CB4 — 18
+ L Q SER IN BIT 4 — RB111DE4 — 22
+ L Q SER IN BIT 3 — RB111EC4 — 26
+ L Q SER IN BIT 6 — RB121AA4 — 30
+ L Q SER IN BIT 7 — RB121AB4 — 34
+ L Q SER IN BIT 5 — RB121BA4 — 38
+ L Q SER IN BIT 9 — RB121BF4 — 42
+ L Q SER IN BIT 8 — RB121ED4 — 46
-1920 FET OUT BIT 0 — RR161BA4 — 50
-1920 FET OUT BIT 1 — RB161BB4 — 54
-1920 FET OUT BIT 2 — RB161BC4 — 58
-1920 FET OUT BIT 3 — RB161BD4 — 62
-1920 FET OUT BIT 4 — RB161BE4 — 66
-1920 FET OUT BIT 5 — RB161BF4 — 70
-1920 FET OUT BIT 6 — RB161BG4 — 74
-1920 FET OUT BIT 7 — RB161BH4 — 78
-1920 FET OUT BIT 8 — RB161BJ4 — 82
-1920 FET OUT BIT 9 — RB161BK4 — 86

A.NOTE 1 FOR 480 FORMAT
SIM TO PN 1563778 EC 717473
B.NOTE 1 FOR 480 FORMAT

RB131
RB141
001

CONFIDENTIAL — UNTIL 080172 — - UNCLASSIFIED

FETS OUT BIT 0: 50 — N (AB, FM1) — 103
FETS OUT BIT 1: 54 — N (AC, P04) — 110
FETS OUT BIT 2: 58 — N (AD, U10) — 117
FETS OUT BIT 3: 62 — N (AE, S04) — 124
FETS OUT BIT 4: 66 — N (AF, F04) — 131
FETS OUT BIT 5: 70 — N (AG, S12) — 138
FETS OUT BIT 6: 74 — N (AH, S05) — 145
FETS OUT BIT 7: 78 — N (BB, S06) — 152
FETS OUT BIT 8: 82 — N (BA, M08) — 159
FETS OUT BIT 9: 86 — N (BC, M02) — 166

A-A1F2

LOC. TYPE
A-A1F2 9065

THEREAFTER ** — - UNCLASSIFIED — THEREAFTER **

1920 INPUT — SEL (AA) — G1 6 — G2 2

BIT 0 = 209 — 10 GC04 — 103 GM11
BIT 1 = 213 — 18 GC05 — 110 GP04
BIT 2 = 217 — 14 GB12 — 117 GU10
BIT 3 = 221 — 26 GJ05 — 124 GS04
BIT 4 = 225 — 22 GC03 — 131 GM04
BIT 5 = 229 — 38 GC10 — 138 GS12
BIT 6 = 233 — 30 GJ09 — 145 GS05
BIT 7 = 237 — 34 GJ11 — 152 GS06
BIT 8 = 241 — 46 GD12 — 159 GR08
BIT 9 = 245 — 42 GC13 — 166 GR02

A-A1F2

SERV NOTE 1 (GL): 138 G07, 145 G09, 152 J12, 159 D13, 166 J02 — A-A1D2

SERV NOTE 1 (EG): 103 J04, 117 B11, 110 G06, 124 J06, 131 G02 — A-A1D2

PAGE VER EC LEV
RB131 001 717473
RB141 000 717946

001 RB131 RB141

*** RB131 ***

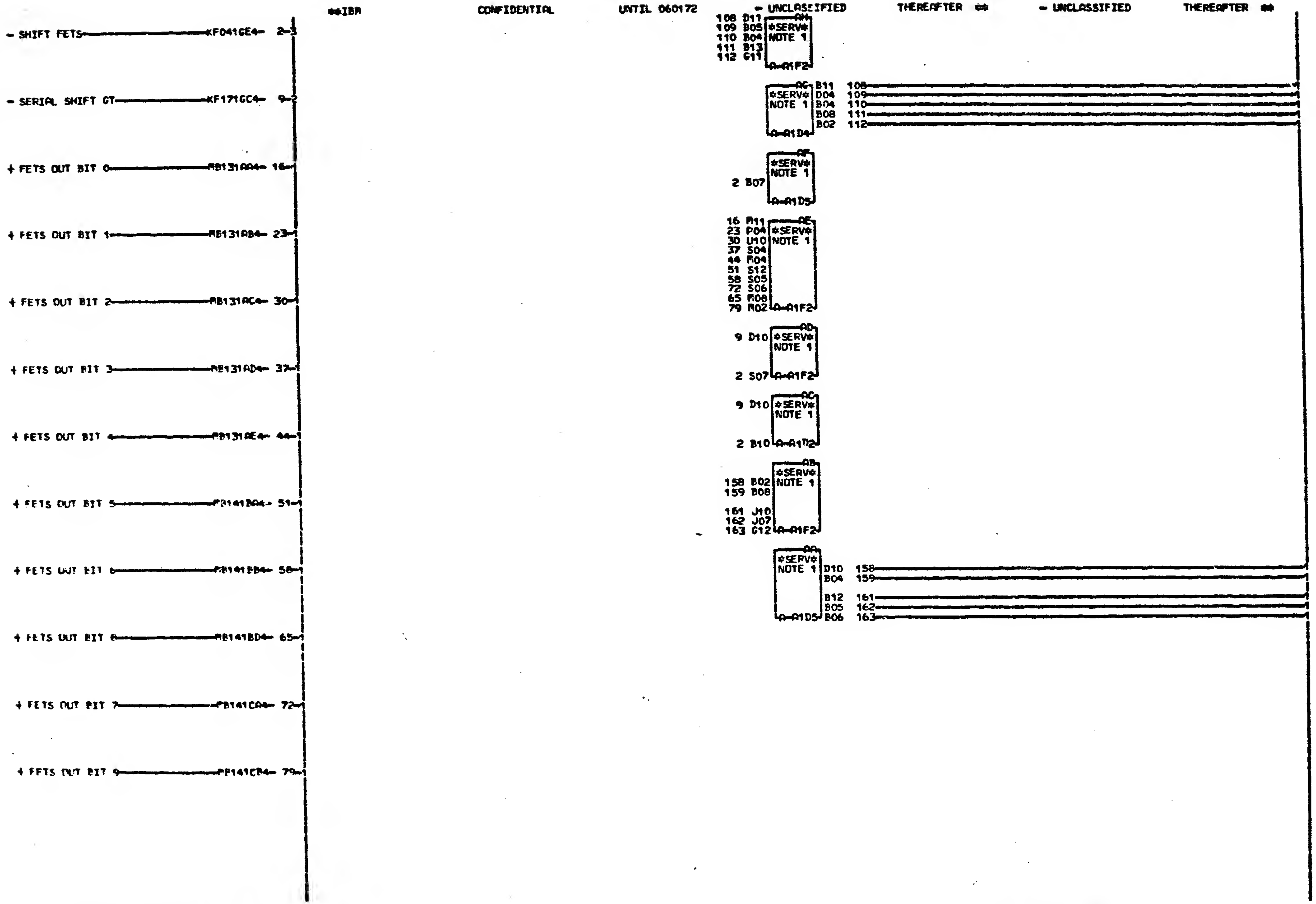
103 + FETS OUT BIT 0 — AB4 — ↑RC011 ↑RG041 ↑RG051
110 + FETS OUT BIT 1 — AB4 — ↑RC011 ↑RG031 ↑RG041
117 + FETS OUT BIT 2 — AC4 — ↑RC011 ↑RG011 ↑RG031 ↑RG041
124 + FETS OUT BIT 3 — CD4 — ↑RC011 ↑RG011 ↑RG031 ↑RG041
131 + FETS OUT BIT 4 — CE4 — ↑RC011 ↑RG011 ↑RG031 ↑RG041
209 = 1920 INPUT BIT 0 — RB161-EB4
213 = 1920 INPUT BIT 1 — RB161-EC4
217 = 1920 INPUT BIT 2 — RB161-ED4
221 = 1920 INPUT BIT 3 — RB161-EE4
225 = 1920 INPUT BIT 4 — RB161-EF4

*** RB141 ***

138 + FETS OUT BIT 5 — BD4 — ◇RC011 ↑RC091 ↑RG021 ↑RG031 ↑RG041
145 + FETS OUT BIT 6 — BB4 — ◇RC011 ↑RC091 ↑RG021 ↑RG031 ↑RG041
159 + FETS OUT BIT 8 — BD4 — ◇KF071 ↑KF131 ↑KR111 ↑KR021 ↑RC011 ↑RC091 ↑RG021 ↑RG041
152 + FETS OUT BIT 7 — CA4 — ◇KR031 ↑RC011 ↑RC091 ↑RG021 ↑RG041
166 + FETS OUT BIT 9 — CB4 — ◇KF071 ↑KR041 ↑KR061 ↑KR071 ◇KR151 ↑KR021 ↑RC011 ↑RC091 ↑RG021 ↑RG041
229 = 1920 INPUT BIT 5 — RB161-GC4
233 = 1920 INPUT BIT 6 — RB161-GD4
237 = 1920 INPUT BIT 7 — RB161-GE4
241 = 1920 INPUT BIT 8 — RB161-GF4
245 = 1920 INPUT BIT 9 — RB161-GG4

960 STORE + GATE

E.C. HISTORY — B. RACK 3277
717473
FRAME 01 — RB131
IBM CORP. PD — RB141
DATE LAST EC
08-05-72 717946
P.N. 1823795 — 001

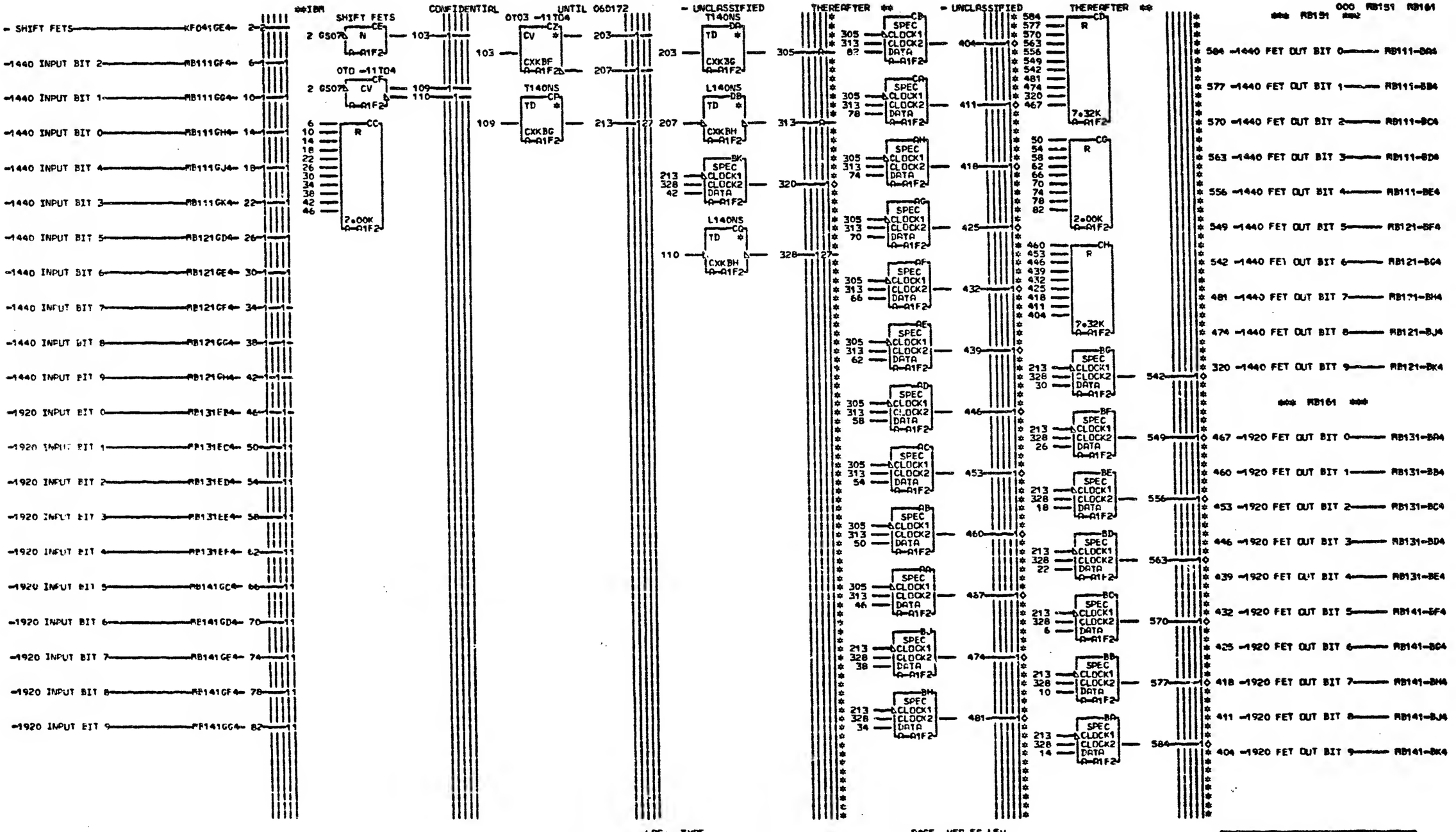


A.NOTE 1 FOR 1920 FORMAT
SIR TO PN 1563780 EC 717946
B.SIR TO PN 1563781 EC 717473

LOC. TYPE

PAGE VER EC LEV
RB151 002 717946
RB161 002 717473

REF 1920 BOARD WIRING		
--E.C.-HISTORY--> 717473	MACH.3277	
	FRAME 01	RB151
	IBM CORP.SDD	RB161
DATE LAST EC 08-11-72 717946	P.N. 1823802	002



LOC. TYPE
A-A1F2 9065

PAGE VER EC LEV
RB151 000 717946
RB161 000 717492

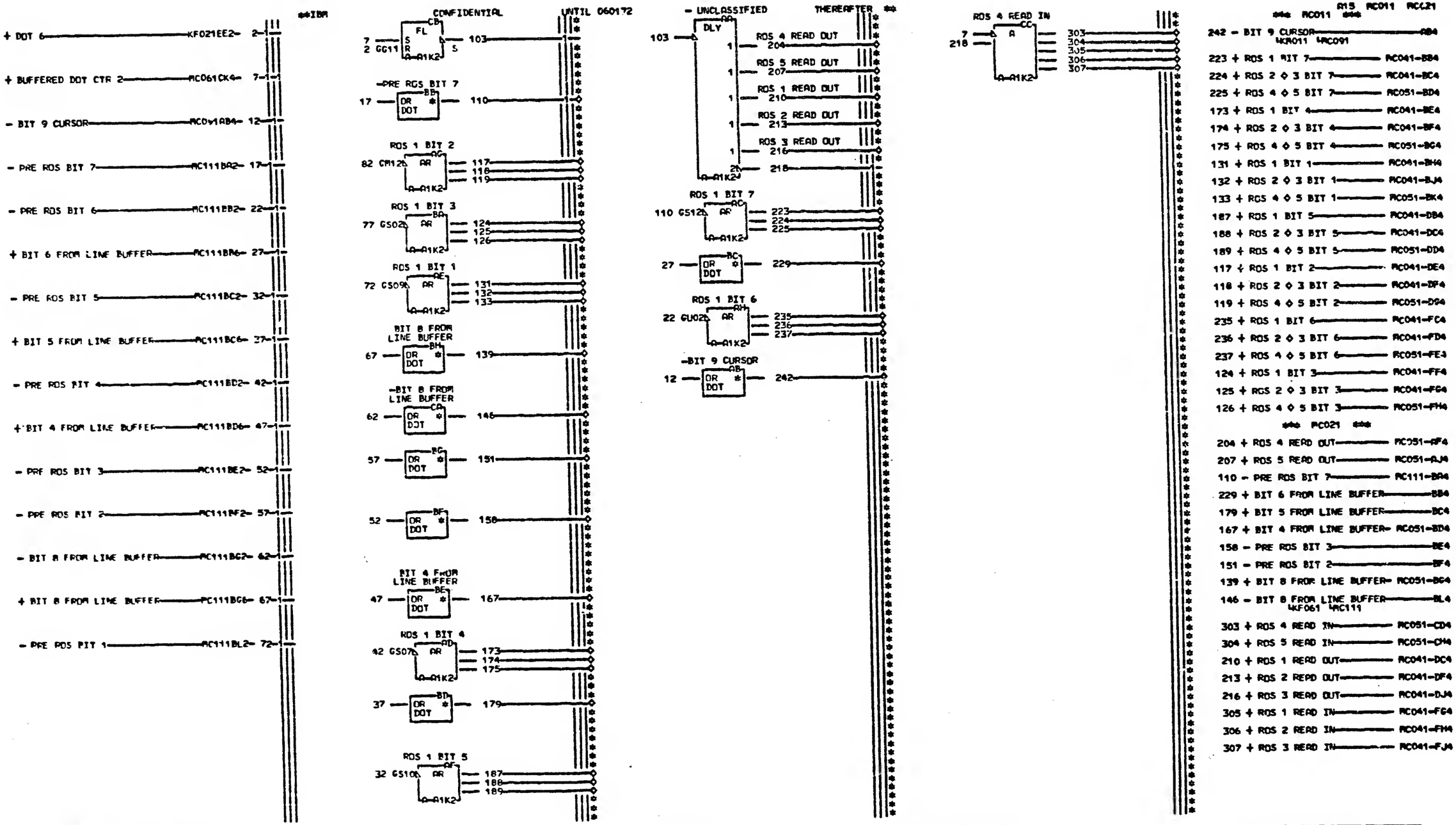
960 STOR + GATE

E.C.-HISTORY-B. RACH.3277
717473
717492

FRAME 01
IBM CORP.PD
P.N. 1823801

DATE LAST EC
08-05-72 717946

RB151 RB151
RB161 RB161
000 000



A=NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS.
SIM TO PN 1563782 EC 717492
B= SF REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS.
SIM TO PN 1563783 EC 717946

A15

LOC. TYPE
A-A1K2 9123

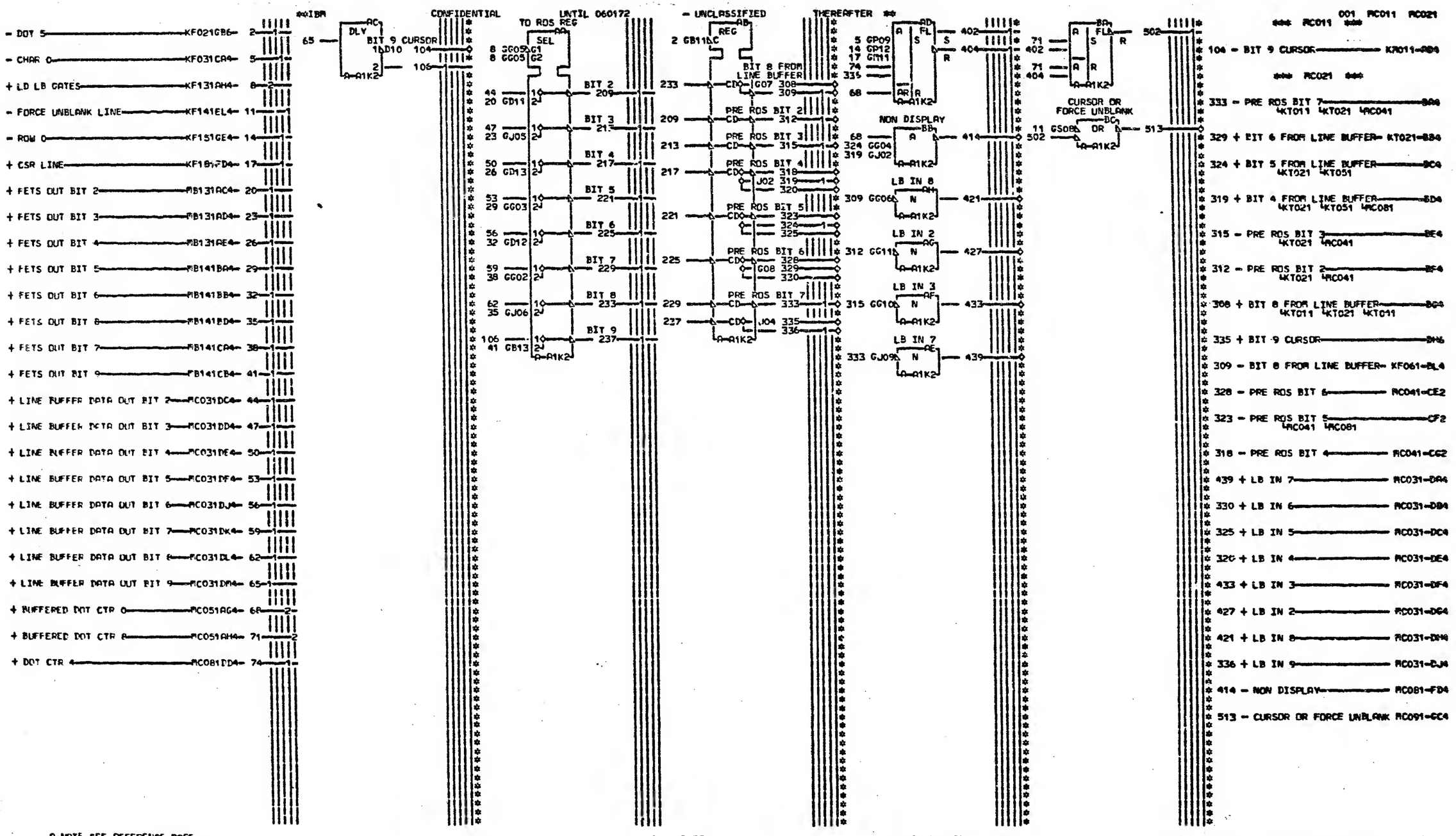
PAGE VER EC LEV
RC011 005 718541
RC021 A15 718541

480 + 1920 CHAR. GEN.
KATAKANA OR EXTENDED CHAR SET
E.C.-HISTORY- B-MACH.3277

717473
717492
717946

DATE LAST EC
10-02-72 718541

FRAME 01 RC011
IBM CORP.SDD RC021
P.N. 1823810 A15



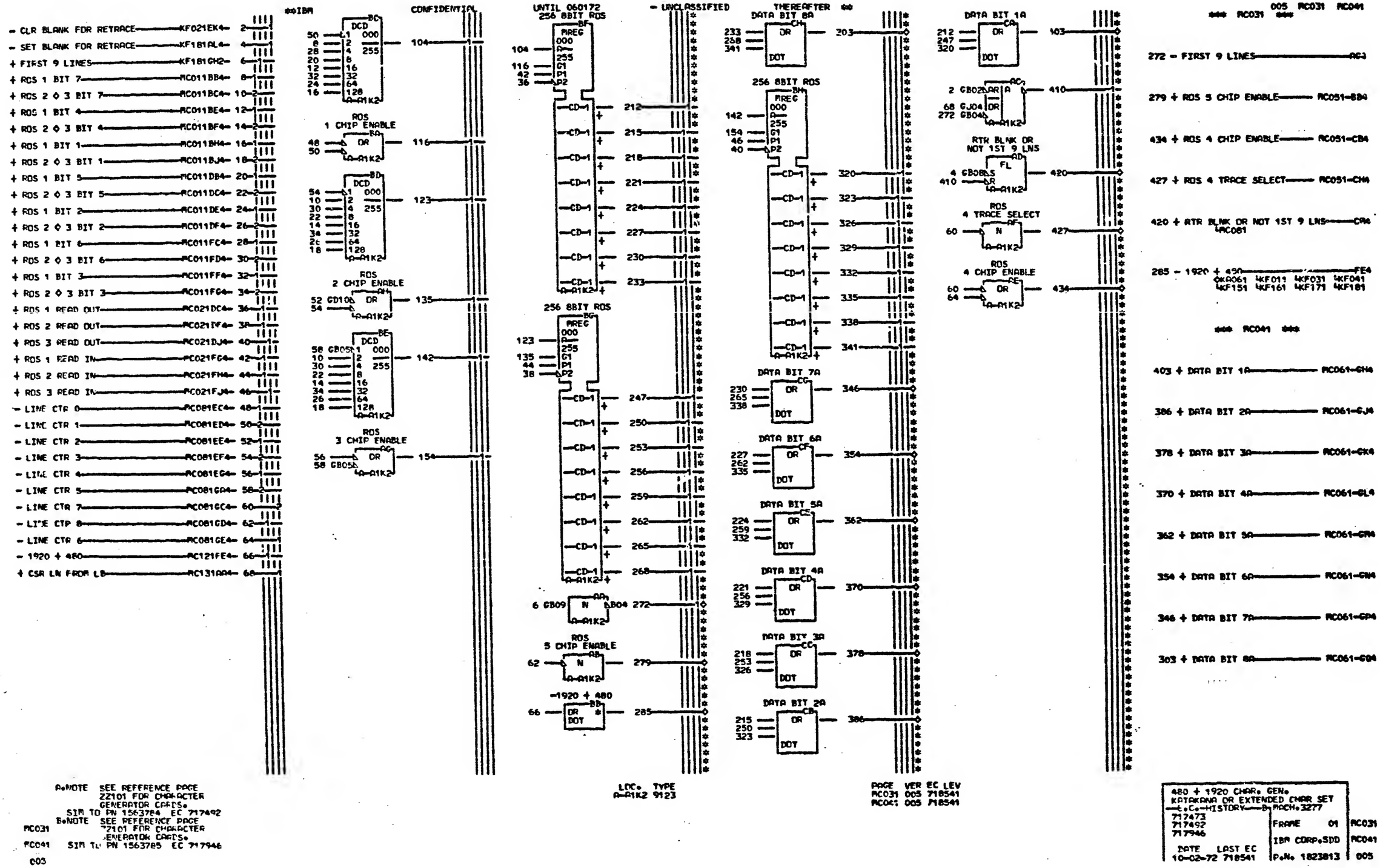
A. NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS
B. NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS SIM TO PN 1563783 EC 717946

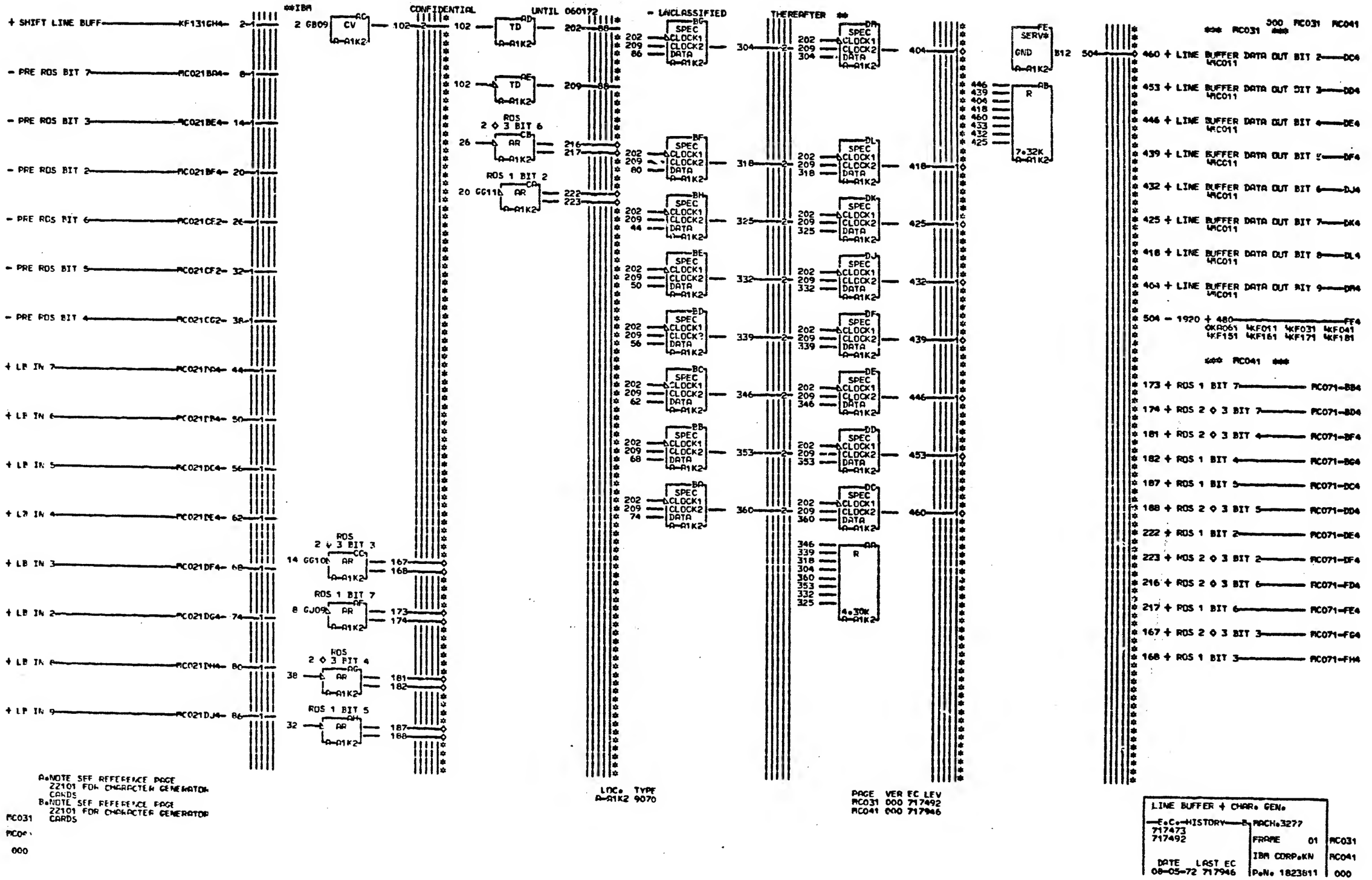
RC011
RC021
001

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
RC011 000 717492
RC021 001 717946

LINE BUFFER + CHAR. GEN.
E.C. HISTORY B. MACH. 3277
717473
717492
FRAME 01 RC011
IBM CORP. KN RC021
DATE LAST EC
08-05-72 717946
P.N. 1823804 001


**IBM
CONFIDENTIAL
UNTIL 060172
- UNCLASSIFIED
THEREAFTER **
- CLR BLANK FOR RETRACE KF021EK4- 2
- SET BLANK FOR RETRACE KF181AL4- 4
+ FIRST 9 LINES KF181GH2- 6
+ ROS 1 BIT 7 RC011BB4- 8
+ ROS 2 ◇ 3 BIT 7 RC011BC4- 10
+ ROS 1 BIT 4 RC011BE4- 12
+ ROS 2 ◇ 3 BIT 4 RC011BF4- 14
+ ROS 1 BIT 1 RC011BH4- 16
+ ROS 2 ◇ 3 BIT 1 RC011BJ4- 18
+ ROS 1 BIT 5 RC011DB4- 20
+ ROS 2 ◇ 3 BIT 5 RC011DC4- 22
+ ROS 1 BIT 2 RC011DE4- 24
+ ROS 2 ◇ 3 BIT 2 RC011DF4- 26
+ ROS 1 BIT 6 RC011FC4- 28
+ ROS 2 ◇ 3 BIT 6 RC011FD4- 30
+ ROS 1 BIT 3 RC011FF4- 32
+ ROS 2 ◇ 3 BIT 3 RC011FG4- 34
+ ROS 1 READ OUT RC021DC4- 36
+ ROS 2 READ OUT RC021DF4- 38
+ ROS 3 READ OUT RC021DJ4- 40
+ ROS 1 READ IN RC021FG4- 42
+ ROS 2 READ IN RC021FH4- 44
+ ROS 3 READ IN RC021FJ4- 46
- LINE CTR 0 RC081EC4- 48
- LINE CTR 1 RC081ED4- 50
- LINE CTR 2 RC081EE4- 52
- LINE CTR 3 RC081EF4- 54
- LINE CTR 4 RC081EG4- 56
- LINE CTR 5 RC081GA4- 58
- LINE CTR 7 RC081GC4- 60
- LINE CTR 8 RC081GD4- 62
- LINE CTR 6 RC081GE4- 64
- 1920 + 480 RC121FE4- 66
+ CSR LN FROM LB RC131AA4- 68
DCD
ROS 1 CHIP ENABLE
ROS 2 CHIP ENABLE
ROS 3 CHIP ENABLE
ROS 4 CHIP ENABLE
ROS 5 CHIP ENABLE
256 8BIT ROS
PREG
DOT
DATA BIT 1A
DATA BIT 2A
DATA BIT 3A
DATA BIT 4A
DATA BIT 5A
DATA BIT 6A
DATA BIT 7A
DATA BIT 8A
RTR BLNK OR NOT 1ST 9 LNS
-1920 + 480
104
116
135
142
154
212
215
218
221
224
227
230
233
247
250
253
256
259
262
265
268
272
279
285
320
323
326
329
332
335
338
341
346
354
362
370
378
386
403
410
420
427
434
272 - FIRST 9 LINES RC031
279 + ROS 5 CHIP ENABLE RC051-BB4
434 + ROS 4 CHIP ENABLE RC051-CB4
427 + ROS 4 TRACE SELECT RC051-CH4
420 + RTR BLNK OR NOT 1ST 9 LNS CH4
RC081
285 - 1920 + 480 FE4
RC061 KF011 KF031 KF041
KF151 KF161 KF171 KF181
403 + DATA BIT 1A RC061-GH4
386 + DATA BIT 2A RC061-GJ4
378 + DATA BIT 3A RC061-GK4
370 + DATA BIT 4A RC061-GL4
362 + DATA BIT 5A RC061-GM4
354 + DATA BIT 6A RC061-GN4
346 + DATA BIT 7A RC061-GP4
303 + DATA BIT 8A RC061-GR4
A-A1K2
A.NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER
GENERATOR CARDS.
SIM TO PN 1563784 EC 717492
B.NOTE SEE REFERENCE PAGE
Z2101 FOR CHARACTER
GENERATOR CARDS.
RC031
RC041
SIM TO PN 1563785 EC 717946
003
LOC. TYPE
A-A1K2 9123
PAGE VER EC LEV
RC031 005 718541
RC041 005 718541
480 + 1920 CHAR. GEN.
KATAKANA OR EXTENDED CHAR SET
E.C.-HISTORY
717473
717492
717946
DATE LAST EC
10-02-72 718541
MACH. 3277
FRAME 01
IBM CORP. SDD
P.N. 1823813
RC031
RC041
005



A. NOTE SEE REFERENCE PAGE 22101 FOR CHARACTER GENERATOR CARDS

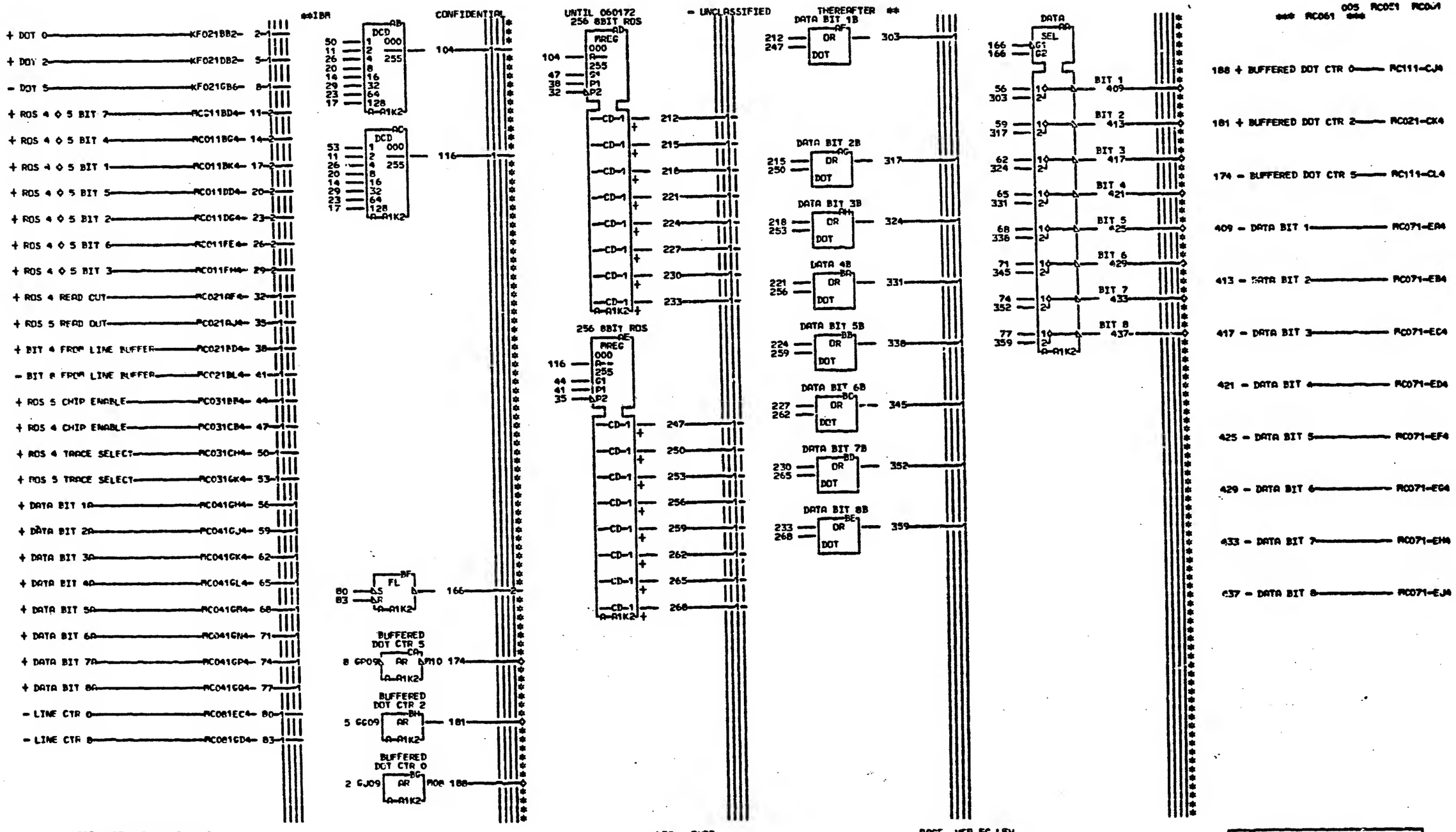
B. NOTE SEE REFERENCE PAGE 22101 FOR CHARACTER GENERATOR CARDS

RC031
RC041
000

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
RC031 000 717492
RC041 000 717946

LINE BUFFER + CHAR. GEN.
E.C. HISTORY
717473
717492
DATE LAST EC
08-05-72 717946
MACH.3277
FRAME 01
IBM CORP. KN
P.N. 1823611
RC031
RC041
000



A.NOTE SEE REFERENCE PAGE Z2101 FOR CHARACTER GENERATOR CODES. IM TO PN 1563786 EC 717492

B .NOTE SEE REFERENCE PAGE Z2101 FOR CHARACTER GENERATOR CODES. SIM TO PN 1563787 EC 717492

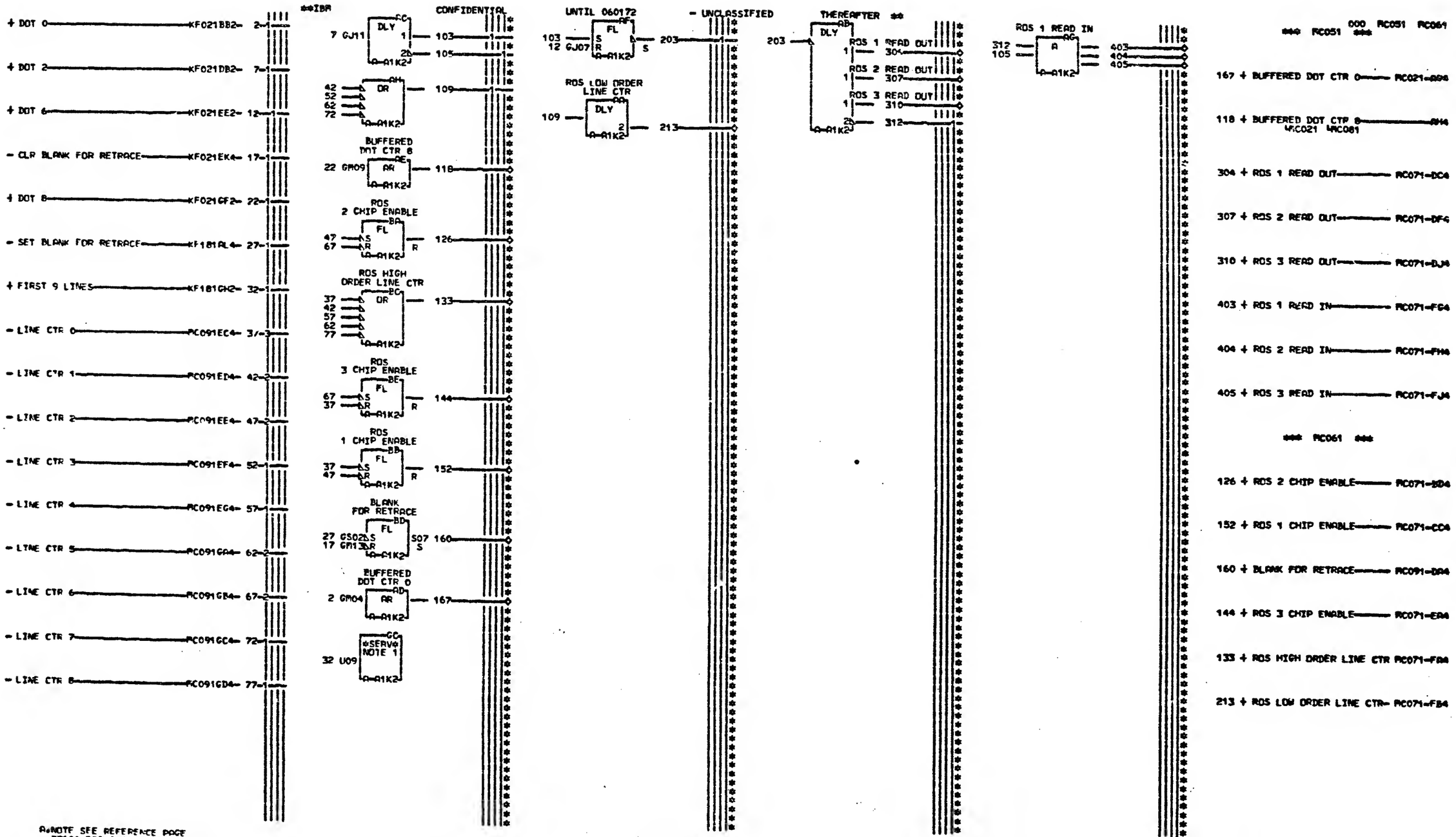
RC051
RC061
005

LOC. TYPE
A-A1K2 9123

PAGE VER EC LEV
RC051 005 718541
RC061 005 718541

420 + 1920 CHAR. GEN.
KATAKANA DR EXTENDED CHAR SET
E.C. HISTORY B. PARA.3277
717473
717492
717946
DATE LAST EC
10-02-72 718541

FRAME 01 RC051
IBM CORP.SDD RC061
P.No 1823818 005



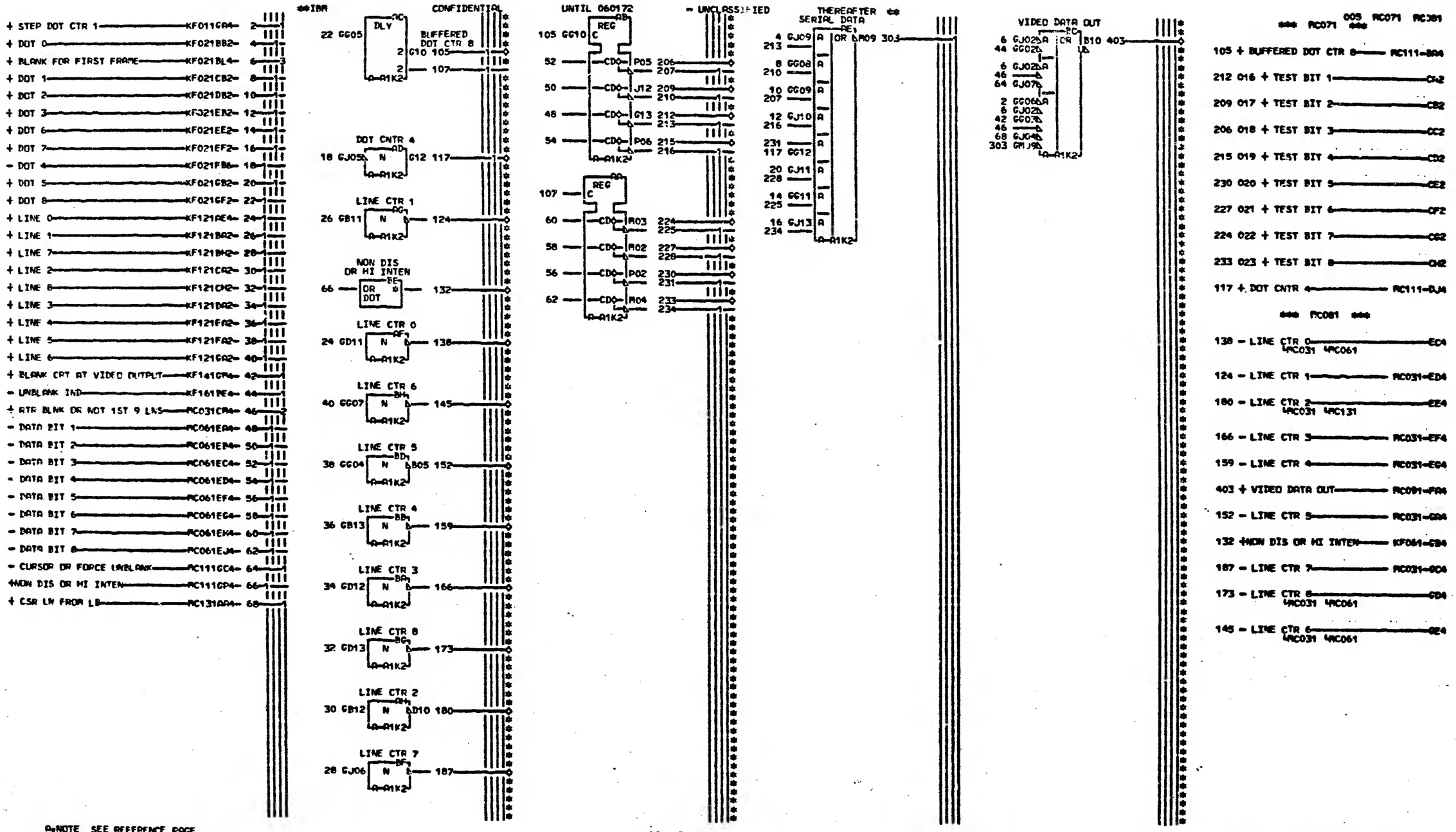
A-NOTE SEE REFERENCE PAGE Z7101 FOR CHARACTER GENERATOR CARDS
B-NOTE 2 SEE REFERENCE PAGE Z7101 FOR CHARACTER GENERATOR CARDS

PC 1
RC061
00C

LOC. TYPE
A-A1K2 9070

PAGE	VER	EC	LEV
RC051	000	717492	
RC061	000	717492	

LINE BUFFER + CHAR. GEN.
-E.C.-HISTORY- B. RACH.3277
717473
DATE LAST EC
06-01-72 717492
FRAME 01 RC091
IBM CORP.KN RC061
P.N. 1823816 000



A. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
SIM TO PN 1563788 EC 717492
B. NOTE SEE REFERENCE PAGE
22101 FOR CHARACTER
GENERATOR CARDS.
SIM TO PN 1563769 EC 717946

RC071
RC081
005

LOC. TYPE
A-A1K2 9123

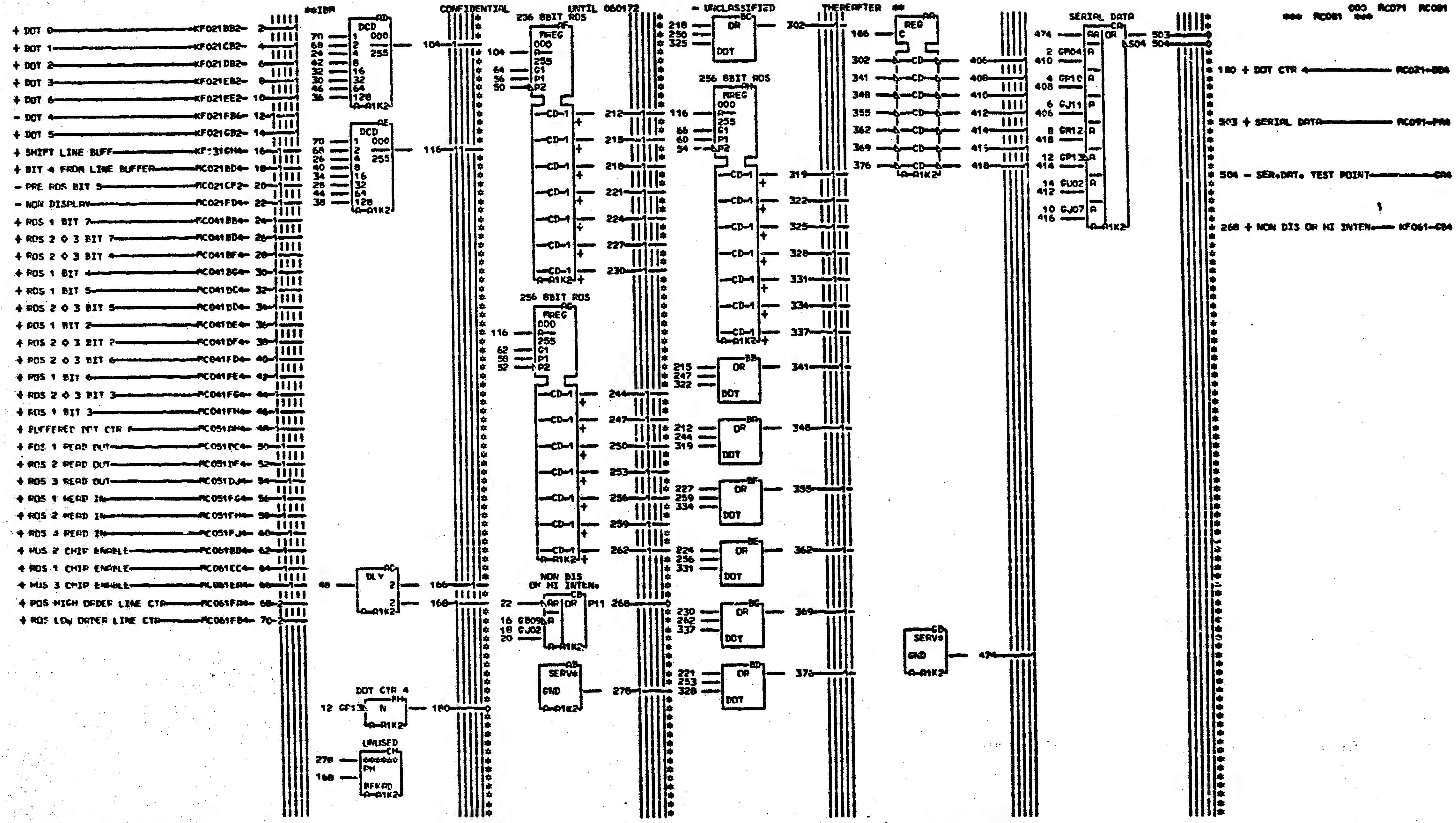
PAGE	VER	EC LEV
RC071	005	718541
RC081	005	718541

480 + 1920 CHAR. GEN.
KATAKANA OR EXTENDED CHAR SET
E.C. HISTORY B. RACH.3277
717473
716959
717492
717946
DATE LAST EC
10-02-72 718541

FRAME 01 RC071
IBM CORP. KN RC081
P.N. 1823823 005

**IBM CONFIDENTIAL UNTIL 080172 - UNCLASSIFIED THEREAFTER **

*** RC081 ***   000 RC071 RC081

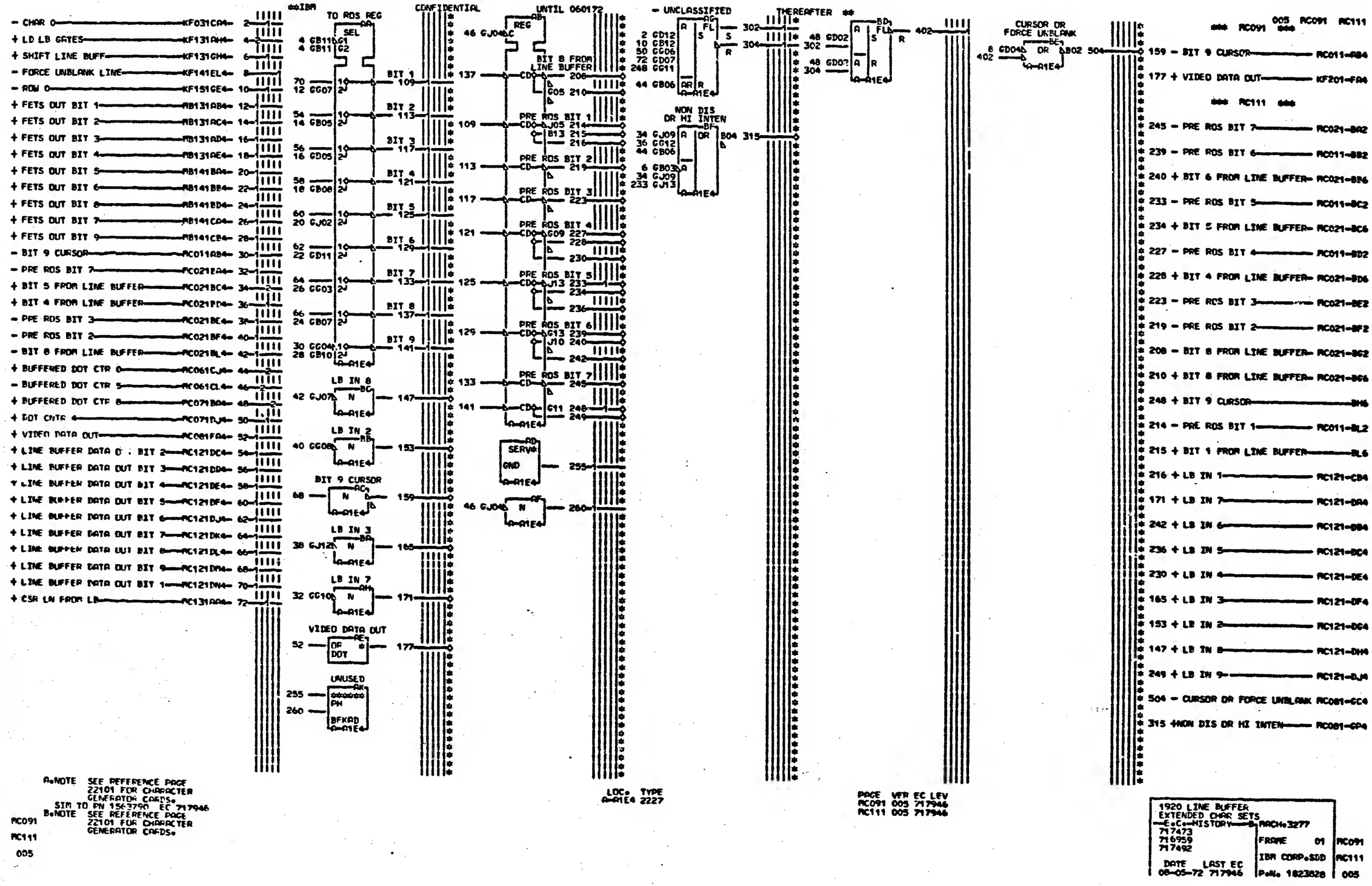


A.NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS
B.NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS

RC071
RC081
000

PAGE VER EC LEV
RC071 000 717492
RC081 000 717946

LINE BUFFER + CHAR. GEN.		
--E.C.--HISTORY--B 717473 717492	MACH.3277	
	FRAME 01	RC071
DATE LAST EC 08-05-72 717946	IBM CORP.KN	RC081
	P.N. 1823821	000


**IBM CONFIDENTIAL
- CHAR 0 KF031CA4- 2
+ LD LB GATES KF131AH4- 4
+ SHIFT LINE BUFF KF131GH4- 6
- FORCE UNBLANK LINE KF141EL4- 8
- ROW 0 KF151GE4- 10
+ FETS OUT BIT 1 RB131AB4- 12
+ FETS OUT BIT 2 RB131AC4- 14
+ FETS OUT BIT 3 RB131AD4- 16
+ FETS OUT BIT 4 RB131AE4- 18
+ FETS OUT BIT 5 RB141BA4- 20
+ FETS OUT BIT 6 RB141BB4- 22
+ FETS OUT BIT 8 RB141BD4- 24
+ FETS OUT BIT 7 RB141CD4- 26
+ FETS OUT BIT 9 RB141CB4- 28
- BIT 9 CURSOR RC011AB4- 30
- PRE ROS BIT 7 RC021EA4- 32
+ BIT 5 FROM LINE BUFFER RC021BC4- 34
+ BIT 4 FROM LINE BUFFER RC021BD4- 36
- PRE ROS BIT 3 RC021BE4- 38
- PRE ROS BIT 2 RC021BF4- 40
- BIT 8 FROM LINE BUFFER RC021BL4- 42
+ BUFFERED DOT CTR 0 RC061CJ4- 44
- BUFFERED DOT CTR 5 RC061CL4- 46
+ BUFFERED DOT CTR 8 RC071BG4- 48
+ DOT CNTR 4 RC071DJ4- 50
+ VIDEO DATA OUT RC081FA4- 52
+ LINE BUFFER DATA OUT BIT 2 RC121DC4- 54
+ LINE BUFFER DATA OUT BIT 3 RC121DD4- 56
+ LINE BUFFER DATA OUT BIT 4 RC121DE4- 58
+ LINE BUFFER DATA OUT BIT 5 RC121DF4- 60
+ LINE BUFFER DATA OUT BIT 6 RC121DJ4- 62
+ LINE BUFFER DATA OUT BIT 7 RC121DK4- 64
+ LINE BUFFER DATA OUT BIT 8 RC121DL4- 66
+ LINE BUFFER DATA OUT BIT 9 RC121DM4- 68
+ LINE BUFFER DATA OUT BIT 1 RC121DN4- 70
+ CSR LN FROM LB RC131AA4- 72
TO ROS REG
SEL
4 GB11 G1
4 GB11 G2
70 12 GG07 BIT 1 109
54 14 GB05 BIT 2 113
56 16 GD05 BIT 3 117
58 18 GB08 BIT 4 121
60 20 GJ02 BIT 5 125
62 22 GD11 BIT 6 129
64 26 GG03 BIT 7 133
66 24 GB07 BIT 8 137
30 28 GG04 GB10 BIT 9 141
LB IN 8
42 GJ07 147
LB IN 2
40 GG08 153
BIT 9 CURSOR
68 159
LB IN 3
38 GJ12 165
LB IN 7
32 GG10 171
VIDEO DATA OUT
52 177
UNUSED
255
260
UNTIL 060172
REG
46 GJ04
137 CD 206
BIT 8 FROM LINE BUFFER
G05 210
109 PRE ROS BIT 1 CD J05 214 B13 215 216
113 PRE ROS BIT 2 CD 219
117 PRE ROS BIT 3 CD 223
121 PRE ROS BIT 4 CD G09 227 228 230
125 PRE ROS BIT 5 CD J13 233 234 236
129 PRE ROS BIT 6 CD G13 239 J10 240 242
133 PRE ROS BIT 7 CD 245
141 CD G11 248 249
SERVR GND 255
46 GJ04 260
- UNCLASSIFIED
2 GD12
10 GB12
50 GG06
72 GD07
248 GG11
44 GB06 FL S R 302
NON DIS DR HI INTEN
34 GJ09
36 GG12
44 GB06
6 GB03
34 GJ09
233 GJ13 DR B04 315
THEREAFTER **
48 GD02 302
48 GD07 304
FL S R 402
CURSOR OR FORCE UNBLANK
8 GD04 DR B02 504
402
*** RC091 005 RC091 RC111 ***
159 - BIT 9 CURSOR RC011-RB4
177 + VIDEO DATA OUT KF201-FA4
*** RC111 ***
245 - PRE ROS BIT 7 RC021-BA2
239 - PRE ROS BIT 6 RC011-BB2
240 + BIT 6 FROM LINE BUFFER RC021-BB6
233 - PRE ROS BIT 5 RC011-BC2
234 + BIT 5 FROM LINE BUFFER RC021-BC6
227 - PRE ROS BIT 4 RC011-BD2
228 + BIT 4 FROM LINE BUFFER RC021-BD6
223 - PRE ROS BIT 3 RC021-BE2
219 - PRE ROS BIT 2 RC021-BF2
208 - BIT 8 FROM LINE BUFFER RC021-BG2
210 + BIT 8 FROM LINE BUFFER RC021-BG6
248 + BIT 9 CURSOR BH6
214 - PRE ROS BIT 1 RC011-BL2
215 + BIT 1 FROM LINE BUFFER BL6
216 + LB IN 1 RC121-CB4
171 + LB IN 7 RC121-DA4
242 + LB IN 6 RC121-BB4
236 + LB IN 5 RC121-BC4
230 + LB IN 4 RC121-DE4
165 + LB IN 3 RC121-DF4
153 + LB IN 2 RC121-DG4
147 + LB IN 8 RC121-DH4
249 + LB IN 9 RC121-DJ4
504 - CURSOR OR FORCE UNBLANK RC081-GC4
315 +NON DIS OR HI INTEN RC081-GP4
A-A1E4 LOC. TYPE 2227
A.NOTE SEE REFERENCE PAGE 22101 FOR CHARACTER GENERATOR CARDS.
SIM TO PN 1563790 EC 717946
B.NOTE SEE REFERENCE PAGE 22101 FOR CHARACTER GENERATOR CARDS.
RC091
RC111
005
PAGE VFR EC LEV
RC091 005 717946
RC111 005 717946
1920 LINE BUFFER
EXTENDED CHAR SETS
-E.C.-HISTORY- -B.MACH.3277
717473
716959
717492
DATE LAST EC
08-05-72 717946
FRAME 01
IBM CORP.SSD
P.N. 1823828
RC091
RC111
005

+ STEP DOT CTR 1 ——— KF011GA4 — 2
+ BLANK FOR FIRST FRAME ——— KF021BL4 — 7
+ LINE 0 ——— KF121AE4 — 12
+ LINE 1 ——— KF121BA2 — 17
+ LINE 7 ——— KF121BH2 — 22
+ LINE 2 ——— KF121CA2 — 27
+ LINE 8 ——— KF121CH2 — 32
+ LINE 3 ——— KF121DG2 — 37
+ LINE 4 ——— KF121EA2 — 42
+ LINE 5 ——— KF121FA2 — 47
+ LINE 6 ——— KF121GA2 — 52
+ BLANK CRT AT VIDEO OUTPUT ——— KF141GP4 — 57
- UNBLANK IND ——— KF161BE4 — 62
+ CSR LINE ——— KF181FD4 — 67
- CURSOR OR FORCE UNBLANK ——— RC021GC4 — 72
+ BLANK FOR RETRACE ——— RC061DA4 — 77
+ SERIAL DATA ——— RC081FA4 — 82

LINE CTR 8: 32 GU13 (BB) N — A-A1K2 — 103
LINE CTR 2: 27 GS03 (AC) N — A-A1K2 — 110
LINE CTR 7: 22 GS13 (BA) N — A-A1K2 — 117
LINE CTR 1: 17 GU07 (AB) N — A-A1K2 — 124
LINE CTR 0: 12 GU05 (AA) N — A-A1K2 — 131
VIDEO DATA OUT (AF) OR: 7 GU06A, 62 GS06, 7 GU06A, 72, 77 GS07, 2 GU04A, 7 GU06, 57 GS05, 67 GP11, 77 GS07, 82 — A-A1K2 — 138
LINE CTR 6: 52 GU12 (AH) N — A-A1K2 — 155
LINE CTR 5: 47 GS11 (AG) N — A-A1K2 — 161
LINE CTR 4: 42 GU10 (AE) N — A-A1K2 — 167
LINE CTR 3: 37 GS10 (AD) N — A-A1K2 — 173

000 RC091 RC091

131 - LINE CTR 0 ——— RC061-EC4
124 - LINE CTR 1 ——— RC061-ED4
110 - LINE CTR 2 ——— RC061-EE4
173 - LINE CTR 3 ——— RC061-EF4
167 - LINE CTR 4 ——— RC061-EG4
138 + VIDEO DATA OUT ——— KF201-FA4
161 - LINE CTR 5 ——— RC061-GA4
155 - LINE CTR 6 ——— RC061-GB4
117 - LINE CTR 7 ——— RC061-GC4
103 - LINE CTR 8 ——— RC061-GD4

A. NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS

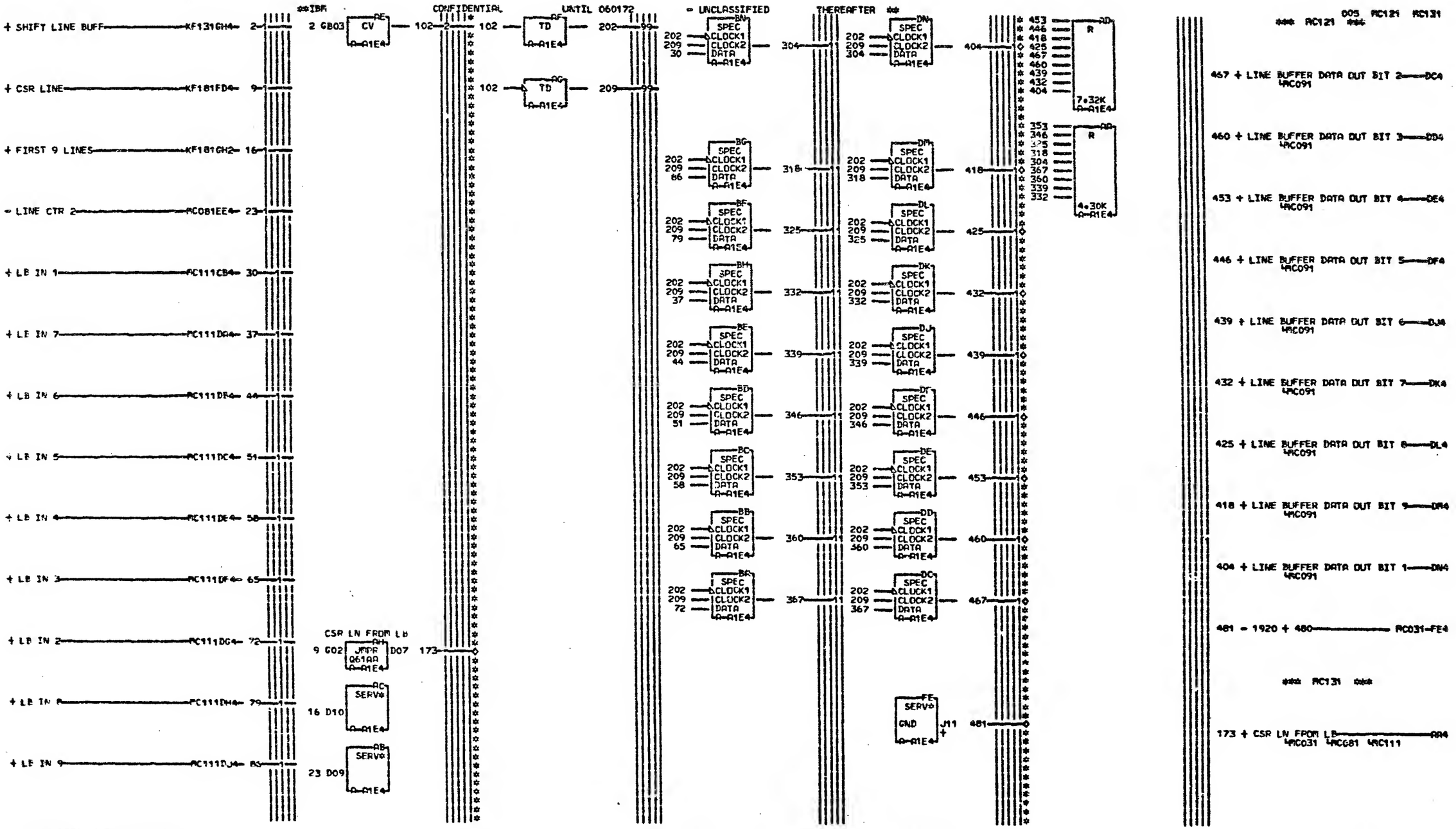
RC091
RC091
000

LOC. TYPE
A-A1K2 9070

PAGE VER EC LEV
RC091 000 717946

LINE BUFFER + CHAR. GEN.

E.C. HISTORY	B. RACH. 3277	
717473 717492	FRAME 01	RC091
	IBR CORP. KN	RC091
DATE LAST EC 08-05-72 717946	P.N. 1823826	000



A-NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS.

B-NOTE SEE REFERENCE PAGE ZZ101 FOR CHARACTER GENERATOR CARDS.

RC121

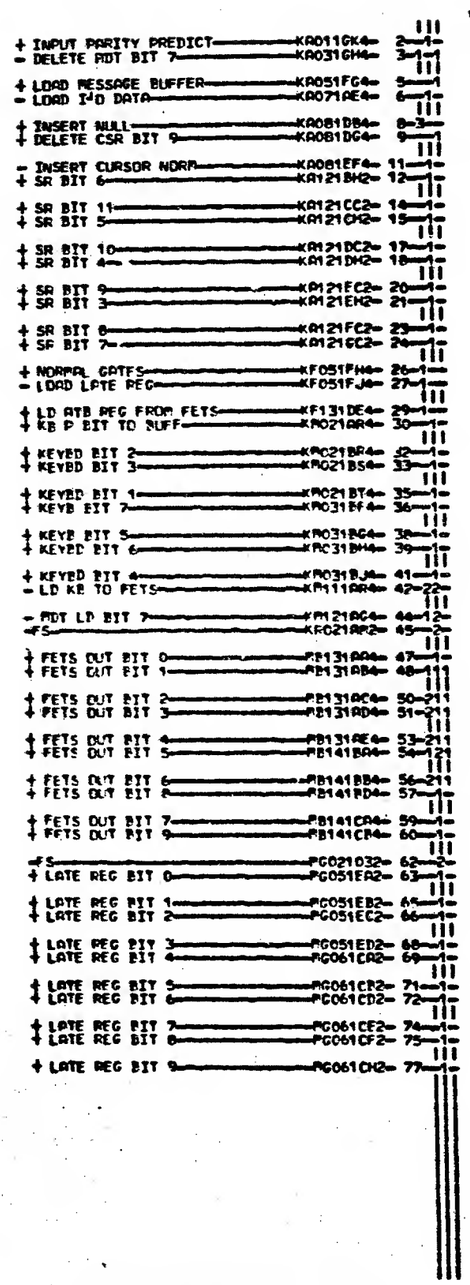
RC131

LOC. TYPE
A-A1E4 2227

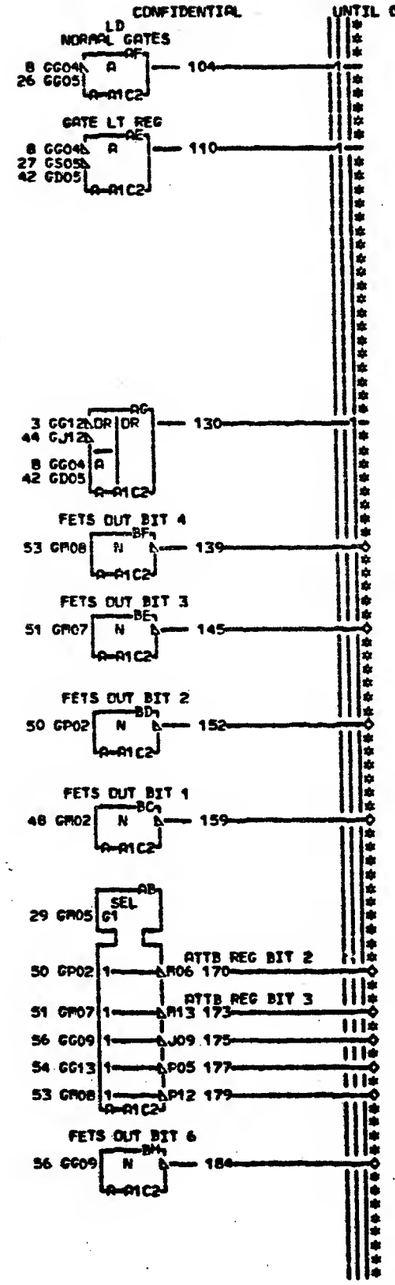
PAGE	VER	EC	LEV
RC121	005	717946	
RC131	005	717492	

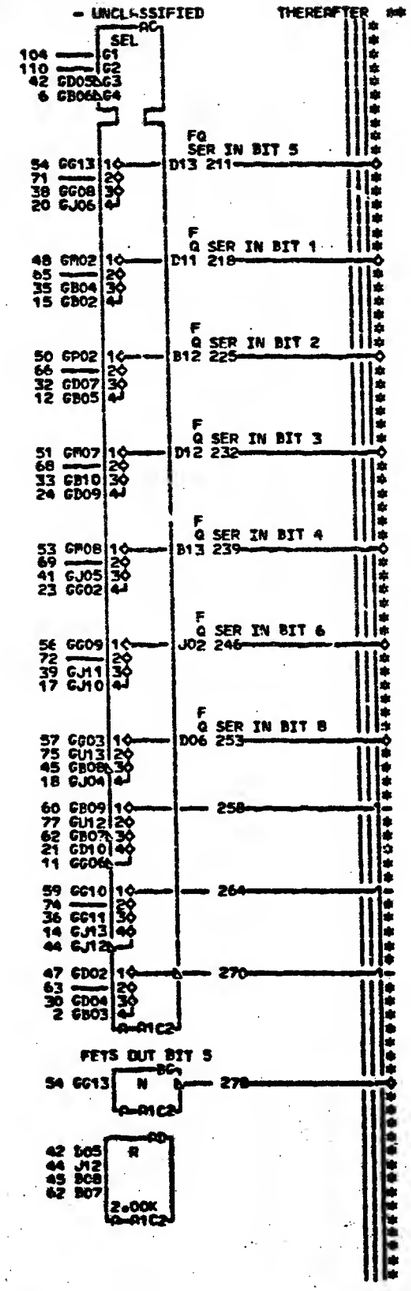
1920 LINE BUFFER
EXTENDED CHAR SETS

ECO-HISTORY-B	RACH.3277	
717473		
716959	FRAME 01	RC121
717492	IBM CORP.SDD	RC131
DATE LAST EC	P.N. 1823831	005
08-05-72 717946		

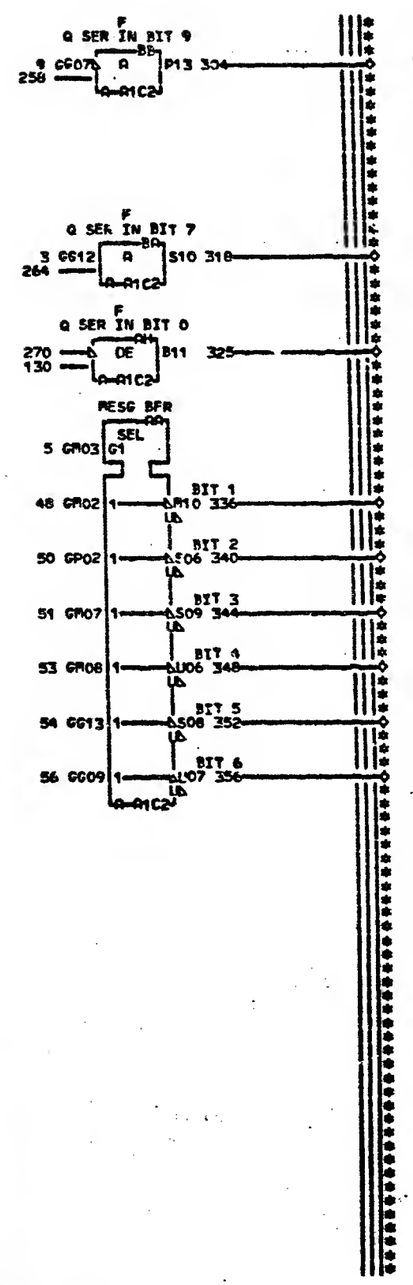


B=SIM TO PN 1563792 EC 717473

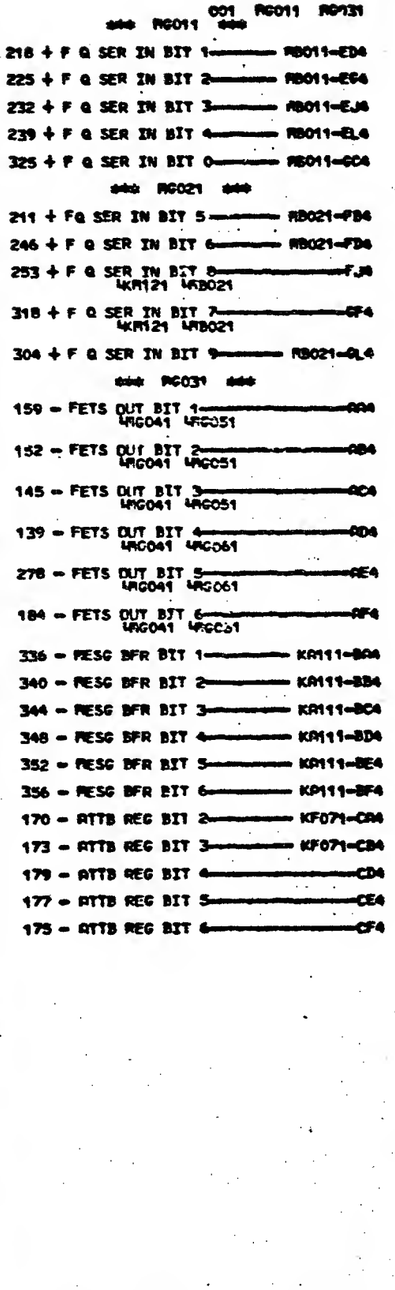




LOC= TYPE
A-A1C2 9066



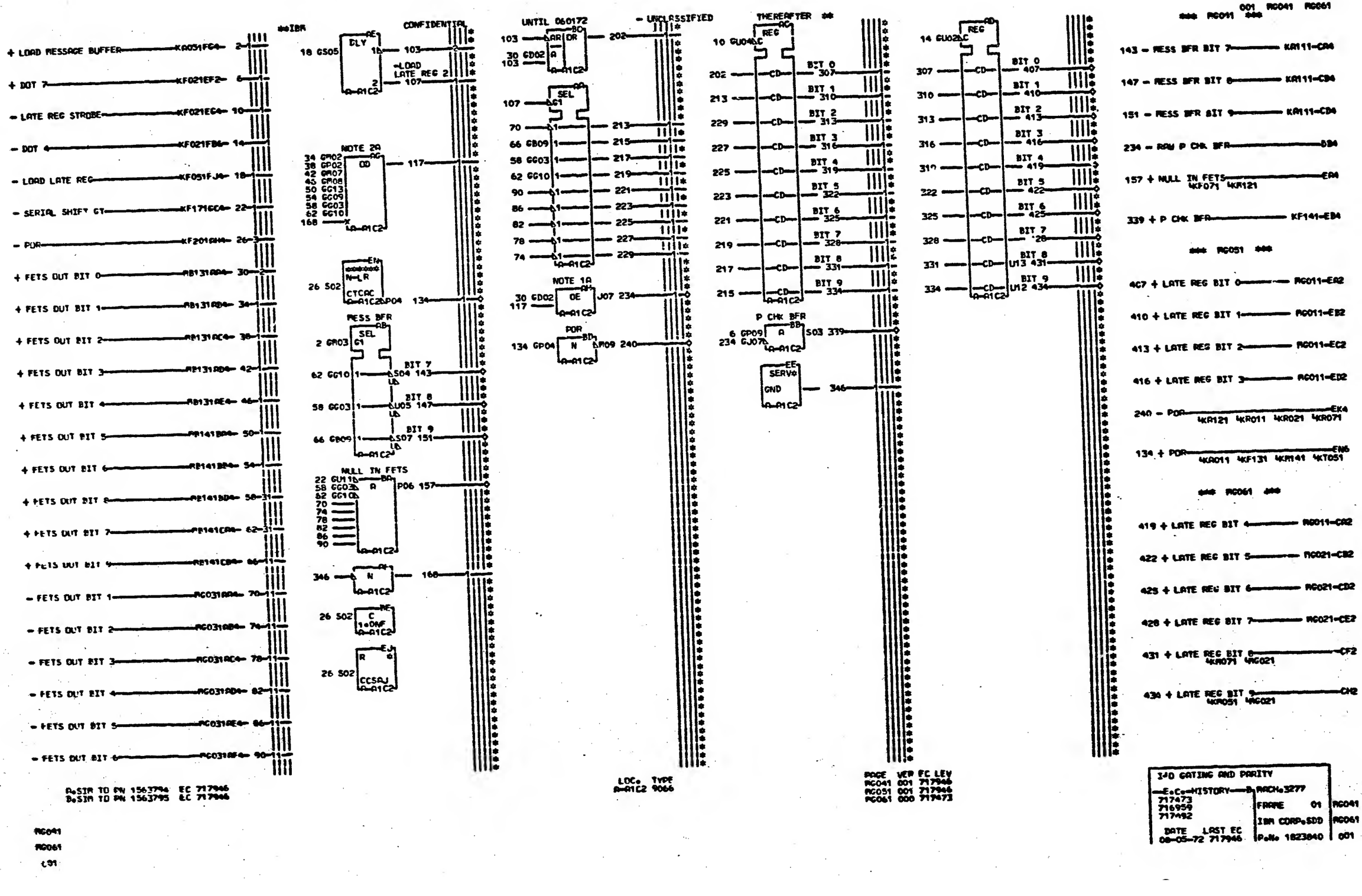
PAGE VER EC LEV
RG011 000 717492
RG021 001 717492
RG031 000 717473



RG011
RG031
001

I*O GATING AND PARITY

E.C. HISTORY — B. MACH. 3277
717473
FRAME 01 RG011
IBM CORP. KN RG031
DATE LAST EC
06-01-72 717492
P.N. 1823835 001



B.SIM TO PN 1563794 EC 717946
B.SIM TO PN 1563795 EC 717946

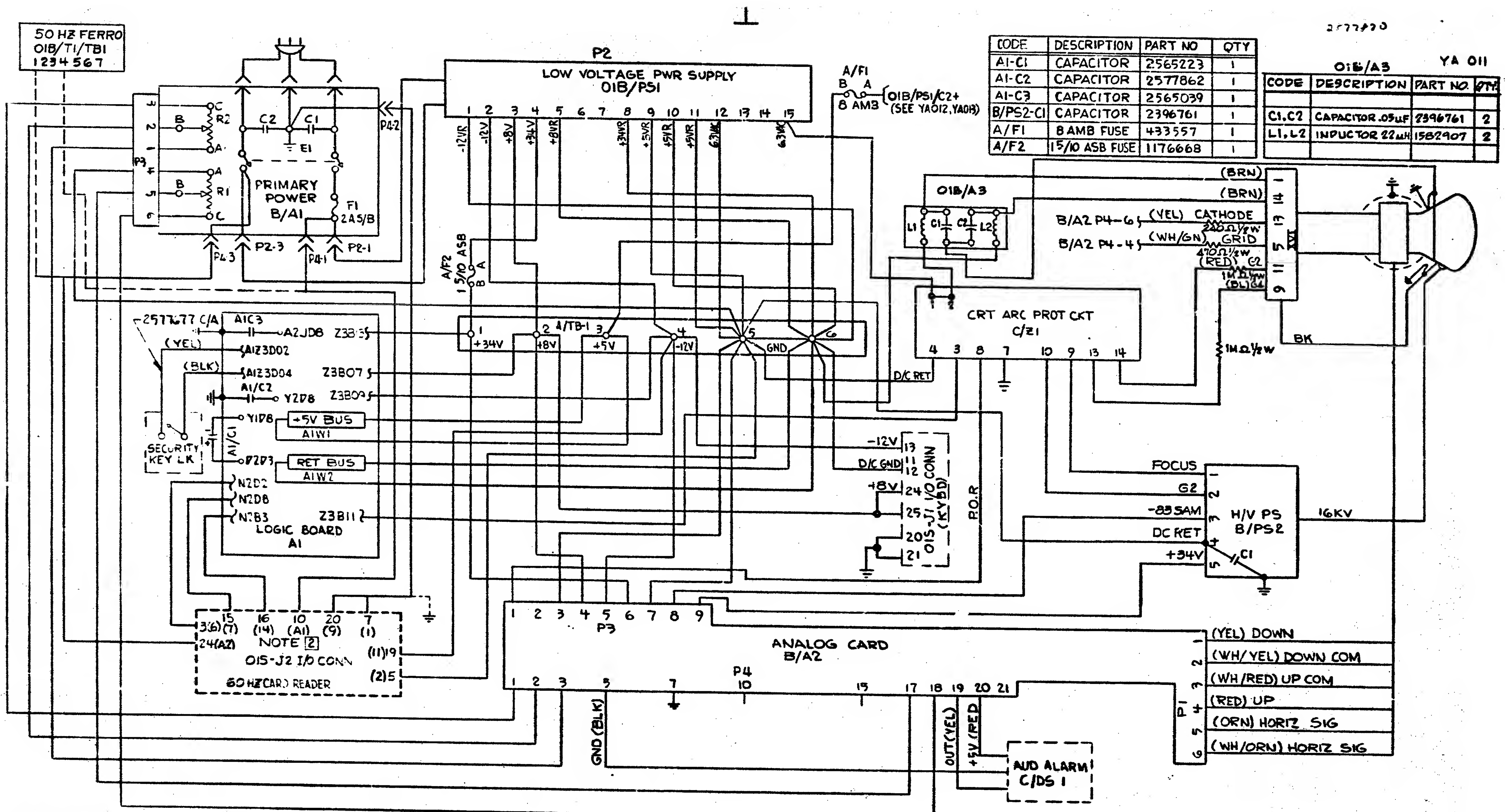
RG041
RG061
C91

LOC. TYPE
A-A1C2 9066

PAGE	VER	EC	LEV
RG041	001	717946	
RG051	001	717946	
RG061	000	719473	

I/O GATING AND PARITY

E.C.-HISTORY-	B.RACH.3277	
717473		
716959	FRAME 01	RG041
717492	IBM CORP.SDD	RG061
DATE LAST EC	P.N. 1823840	001
08-05-72 717946		



2577870

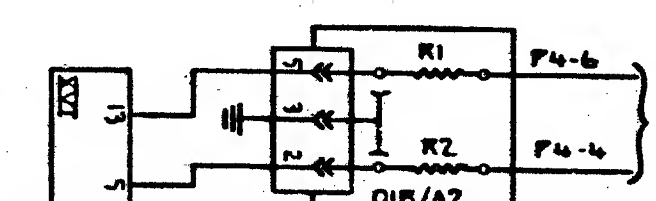
CODE	DESCRIPTION	PART NO	QTY
A1-C1	CAPACITOR	2565223	1
A1-C2	CAPACITOR	2577862	1
A1-C3	CAPACITOR	2565039	1
B/PS2-C1	CAPACITOR	2396761	1
A/F1	8 AMB FUSE	433557	1
A/F2	15/10 ASB FUSE	1176668	1

01B/A3

CODE	DESCRIPTION	PART NO.	QTY
C1, C2	CAPACITOR .05uF	2396761	2
L1, L2	INDUCTOR 22 mH	1582907	2

NOTES:

1. WHEN KEYB'D FEAT IS NOT ATTACHED TO DISPLAY LOAD RESIS 2577676 REF MOUNTS TO B/TB1-2 & 6; AND 2577679 REF MOUNTS TO B/TB1-3 & 6
2. THE 50 HZ CARD READER RECEIVES IT'S POWER FROM FERRO 01B/T1/TB1-1 & 4 NOT THRU PRIME POWER 01B/A1/P4 CONN POS 1 & 9 TIE DIRECTLY TO FR GND ON GUSSET. NUMBERS IN PARENTHESIS REPRESENT THE 50 HZ CONNECTOR POSITIONS
3. ARC SUPPRESSION CARD ASM IS ONLY USED ON UNITS WITH 2565236 ANALOG CARD ASM.



ARC SUPPRESSION CARD ASM 2568807
NOTE 3

SEE EC HISTORY		DRAWING TITLE
AUG73	733401	POWER DIST
MAR74	739992	MACH
3FEB 75	741722	PART NO 2577870
MAY75	741690	CLASSIFICATION

D

IBM CORP

YA011

OIC/TB1			
CODE	DESCRIPTION	PART NO.	QTY
R1,R2	RESISTOR 1M 2W	5252640	2
R3	RESISTOR 22M 1/2W	505370	1
R4	RESISTOR 20K 1/2W	300723	1
C1,C2	CAPACITOR 9000pF	5252644	2
C3	CAPACITOR 56-15DC	222091	1
D1	NEON NE 2H	602653	1
CR1,2,3	DIODE GY	2414891	3
C4	CAPACITOR .05μF	2396761	1
OIA-A1			
A1/C1	CAPACITOR	2565223	1
C2,C3	CAPACITOR .05μF	2565039	2
OIC/A4			
L1, L2	INDUCTOR 22 μH	1582907	2
C1,C2	CAPACITOR .05 μF	2396761	2
OIC/A3			
R1,R2	RESISTOR 100Ω 1W	2396969	2
OIC/			
F1	FUSE 8AMB	433557	1
F2	FUSE 1 5/10 ASB	1176668	1
OIS-J4			
C1	CAPACITOR .1μF	5213736	1
V1	VARISTOR 33V	4406517	1

NOTES

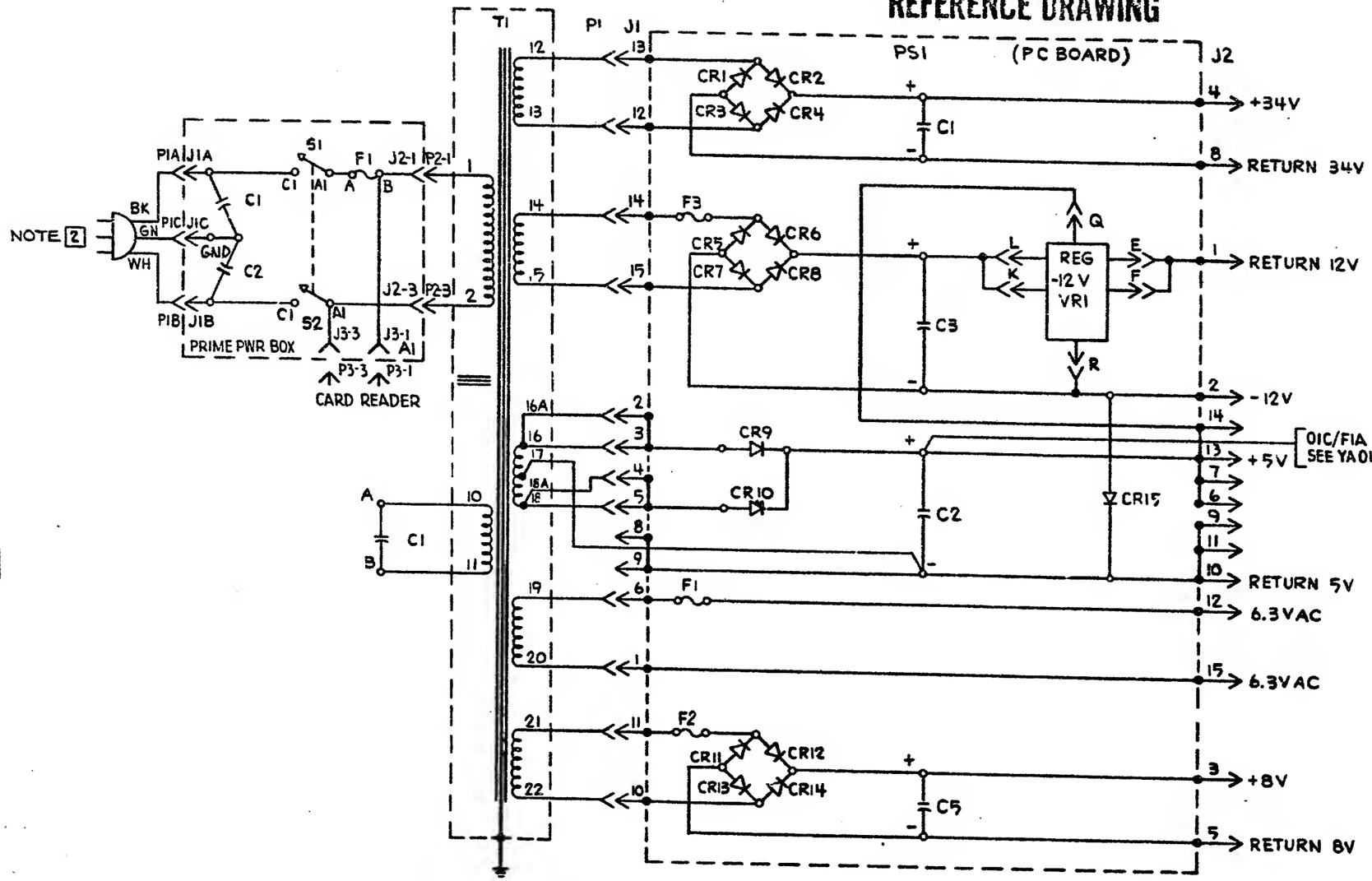
1. RESISTOR ASM 2565195 (25Ω, 5W) TO BE USED WHEN KEYBOARD IS NOT CONNECTED
2. 100 VAC 60HZ, 115 VAC 60HZ OR 123.5 50 HZ
3. ARC SUPPRESSION CARD ASM IS ONLY USED ON UNITS WITH 2565236 ANALOG CARD ASM
4. NUMBERS IN PARENTHESIS ARE CONNECTOR PINS USED IN 50HZ APPLICATIONS
5. TERMINATES AT K3D8 WITH 1/2 BD & N3D8 WITH 2/3 BD

SEE EC HISTORY		DRAWING TITLE
APR 75	739999	POWER DIST & ANALOG
JAN 78	745414	MACH 3277-002
		PART NO 2564997
		CLASSIFICATION

D — IBM CORP

YA011

REFERENCE DRAWING



CODE	DESCRIPTION	PART NO	
PS1	PRINTED CIRCUIT BOARD ASM	2481185	
VR1	REGULATOR CARD-12V	2481207	
PS1C1	CAPACITOR, 7.2K µF 40V	5712125	
PS1C2	CAPACITOR, 240K µF 7.5V	5252526	
PS1C3	CAPACITOR, 3.1K µF 25V	483107	
PS1C5	CAPACITOR, 60K µF 10V	5252514	
A1C1 & A1C2	CAPACITOR, FILTER .01 µF	737805	
C1	CAPACITOR, 4 µF 660VAC	2582939	
CR1-CR8 CR15	DIODE, 1AMP 180V	5214324	
CR9 & CR10	DIODE, 10AMP 150V	598479	
CR11-CR14	DIODE, 3AMP 100V	1149212	
A1F1, PS1F1	FUSE, 2AMP SB 125 V	332009	
PS1F2	FUSE, 5AMP SB 125 V	512137	
PS1F3	FUSE, 2AMP SB 125 V	332009	
S1 & S2	SWITCH, 10AMP 125/250V	5252566	
T1	FERRO, 60HZ	NOTE 2	

NOTES

1. ALL POWER UNITS IN 01D/ ZONE
2. THIS WIRING DIAGRAM PERTAINS TO 115 VAC 1Φ 60HZ UNITS (FERRO P/N 2582999), OR 100 VAC 1Φ 60HZ JAPAN UNITS (FERRO P/N 4119307).

EC HISTORY		DRAWING TITLE
SEE EC HISTORY		CKT. DIAG. 19C DISPL. UNIT 60HZ
16 JUL 73	739021	MACH
3 FEB 75	741722	PART NO 2481235
		CLASSIFICATION
		10 L 16 70 Plan OCT74

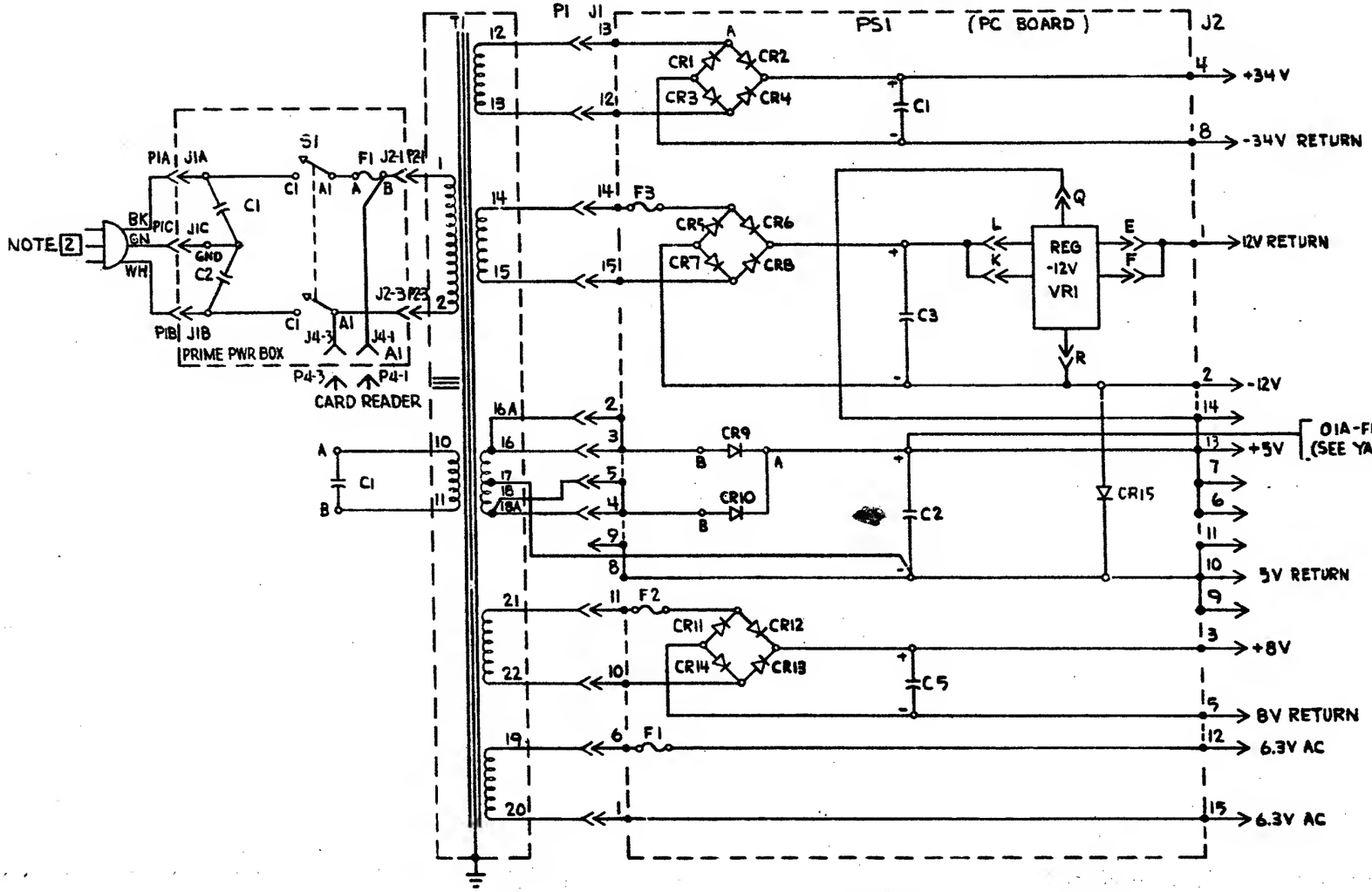
D

IBM CORP

YA012

YA0-2

REFERENCE DRAWING



CODE	DESCRIPTION	PART NO	
PS1	PRINTED CIRCUIT BOARD ASM	2481185	
VR1	REGULATOR CARD -12V	2481207	
PS1C1	CAPACITOR 7.2K MF 40V	5712125	
PS1C2	CAPACITOR 240K MF 75V	5252526	
PS1C3	CAPACITOR 3.1K MF 25V	493107	
PS1C5	CAPACITOR 60K MF 10V	5252514	
A1C1 & A1C2	CAPACITOR, FILTER .01MF	737805	
C1	CAPACITOR AC 4MF 660VAC	2582939	
CR1-CR8, CR15	DIODE 1AMP 180V	5214324	
CR9 & CR10	DIODE 10AMP 150V	598479	
CR11-CR14	DIODE 3AMP 100V	1149212	
A1F1, PS1F1	FUSE 2AMP SB 125V	332009	
PS1F2	FUSE 5AMP SB 125V	512137	
PS1F3	FUSE 2AMP SB 125V	332009	
S1	SWITCH	5252626	
T1	FERRO, 60HZ	NOTE 2	

YA012

NOTES

1. ALL POWER UNITS IN 01D/ ZONE
2. THIS WIRING DIAGRAM PERTAINS TO 115 VAC 1Φ 60HZ UNITS (FERRO P/N 2582999), OR 100 VAC 1Φ 60HZ JAPAN UNITS (FERRO P/N 4119307).

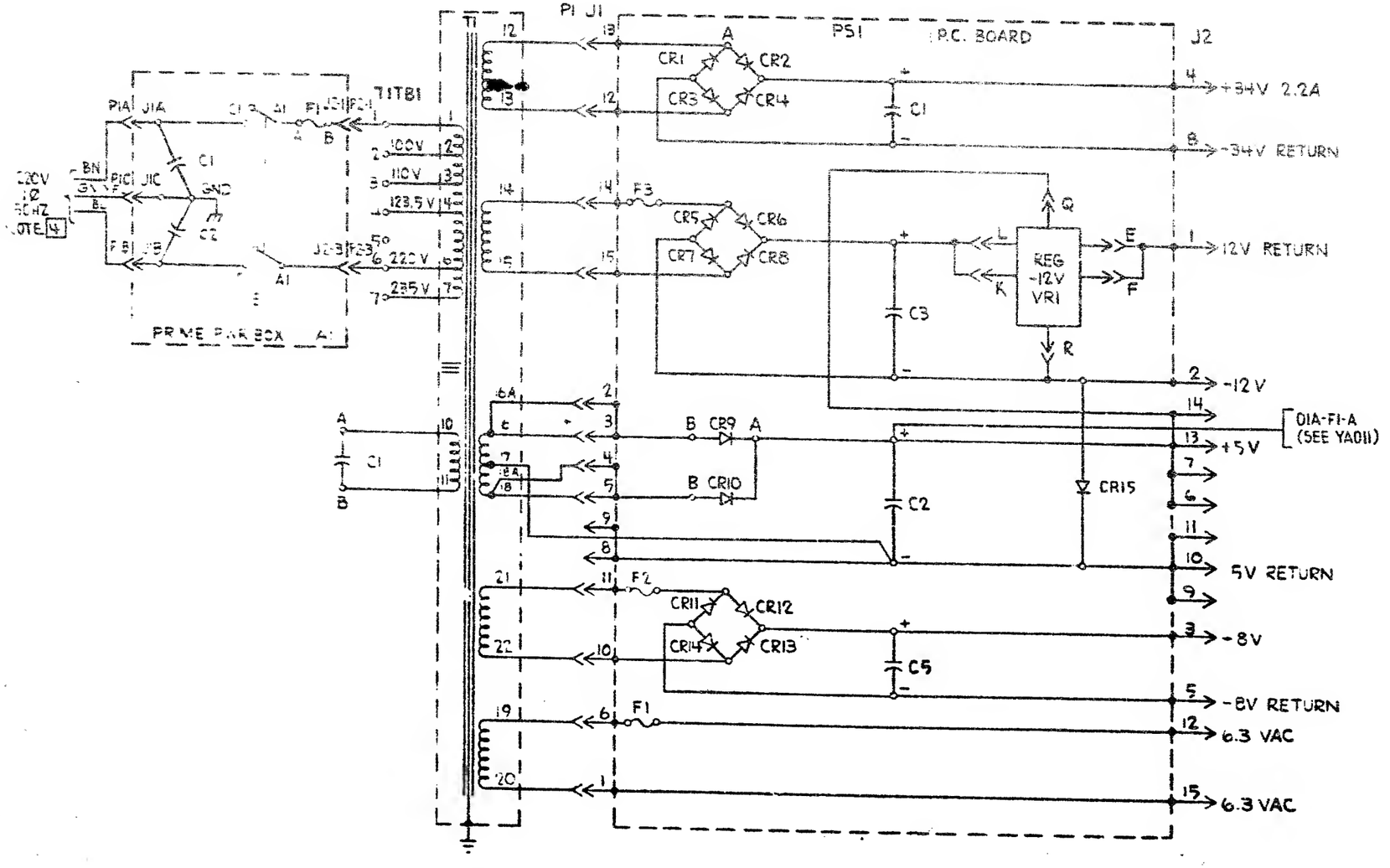
EC HISTORY		DRAWING TITLE
SEE EC	HISTORY	SYS DIAG 48C DISPL UNIT 60HZ
16 JUL 73	739021	MACH
3 FEB 75	741722	PART NO 2481234
		CLASSIFICATION
		MAL 10 JUL 70 Kelly OCT 73

D

IBM CORP

YA012

REFERENCE DRAWING



CODE	DESCRIPTION	PART NO	
PS1	PRINTED CIRCUIT BOARD ASM	2481238	
VR1	REGULATOR CARD - 12V	2481207	
PS1C1	CAPACITOR 7200 UF 40V	5712125	
PS1C2	CAPACITOR 2400 UF 7.5V	5252526	
PS1C3	CAPACITOR 3.1K UF 25V	483107	
PS1C5	CAPACITOR 600 UF 10V	5252514	
A1C1 &A1C2	CAPACITOR FILTER .01 UF	537805	
C1	CAPACITOR 40 - UF 660 VAC	2582939	
CR1-CR8, CR15	DIODE 1 AMP 180V	5214324	
CR9&CR10	DIODE 3AMP 150V	598479	
CR11-CR14	DIODE 3AMP 100V	1149312	
PS1F1	FUSE 2AMP SB125 V	332009	
PS1F2	FUSE 5AMP SB 125 V	512137	
PS1F3	FUSE 2AMP SB125 V	332009	
A1F1	FUSE 1AMP SB 250 V	NOTE [2]	
	FUSE 2AMP SB 125 V	NOTE [3]	
S1	SWITCH	5252626	
T1	FERRO, 50HZ	4119272	

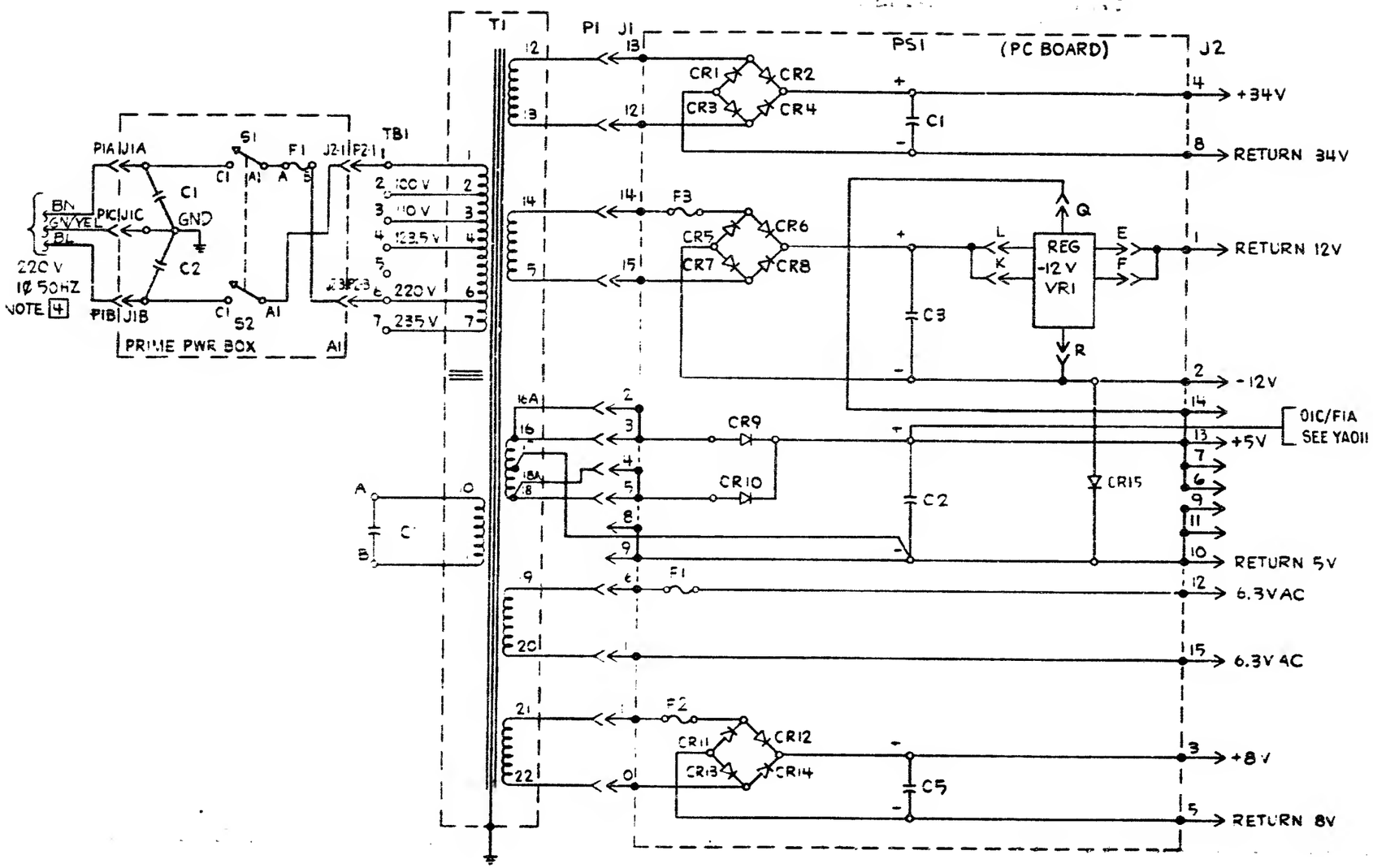
NOTES

1. ALL POWER UNITS IN OID/ZONE
2. FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220 V OR 235 V
3. FUSE 332009 IS REQUIRED WHEN THE UNIT IS WIRED FOR 100V, 110 V OR 123.5 V
4. THE INPUT COLOR CODING FOR 100 VAC 1Φ 50HZ JAPAN UNITS IS BK, WH, GN/YEL

EC HISTORY		DRAWING TITLE
10 OCT 71	716727	SYS DIAG 486 DSPL UNIT 50 HZ
5 MAY 72	717675	MACH
9 FEB 73	738312	PART NO 2481238
16 JUL 73	739021	CLASSIFICATION
3 FEB 75	741722	

D

IBM CORP



CODE	DESCRIPTION	PART NO	
PS1	PRINTED CIRCUIT BOARD ASM	2481185	
VR1	REGULATOR CARD -12V	2481207	
PS1C1	CAPACITOR, 7.2K UF 40V	5712125	
PS1C2	CAPACITOR, 240K UF 7.5V	5252526	
PS1C3	CAPACITOR, 3.1K UF 25V	483107	
PS1C5	CAPACITOR, 60K UF 10V	5252514	
A1C1 & A1C2	CAPACITOR FILTER .01UF	737805	
C1	CAPACITOR, 4 UF 660VAC	2582939	
CR1-CR8, CR15	DIODE, 1AMP 180V	5214324	
CR9 & CR10	DIODE, 10AMP 150V	598479	
CR11-CR14	DIODE, 3AMP 100V	[illegible]+9212	
PS1F1	FUSE, 2AMP SB 125 V	332009	
PS1F2	FUSE, 5AMP SB 125 V	512137	
PS1F3	FUSE, 2AMP SB 125 V	332009	
A1F1	FUSE, 1AMP SB 250 V	NOTE 2	
	FUSE, 2AMP SB 125 V	NOTE 3	
S1 & S2	SWITCH, 10AMP 125/250V	5252566	
T1	FERRO, 50 HZ	4119272	

YA013

NOTES

1. ALL POWER UNITS IN OID/ZONE
2. FUSE 303549 IS REQUIRED WHEN THE UNIT IS WIRED FOR 220V OR 235V
3. FUSE 332009 IS REQUIRED WHEN THE UNIT IS WIRED FOR 100V, 110V, OR 123.5V
4. THE INPUT CABLE COLOR CODING FOR 100VAC 1Ø 50HZ JAPAN UNITS IS BK, WH, GN/YEL

EC HISTORY		DRAWING TITLE
SEE EC	HISTORY	CKT DIAG 19C DISPL UNIT 50HZ
16 JUL 79	739021	MACH
3 FEB 75	741722	PART NO 2481236
		CLASSIFICATION

D

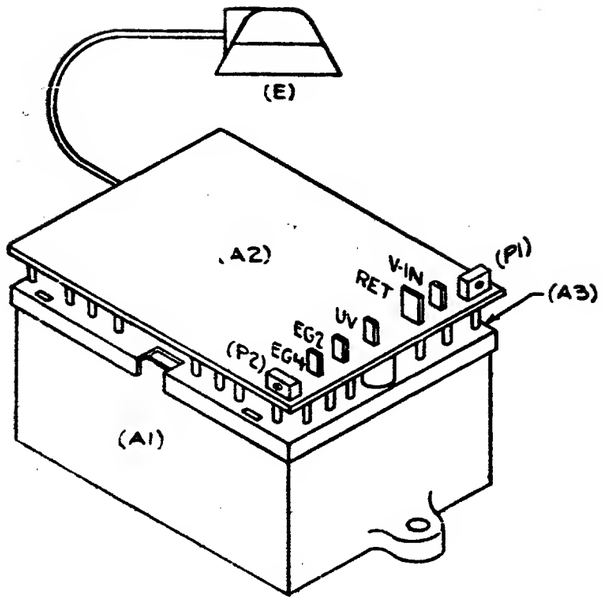
IBM CORP

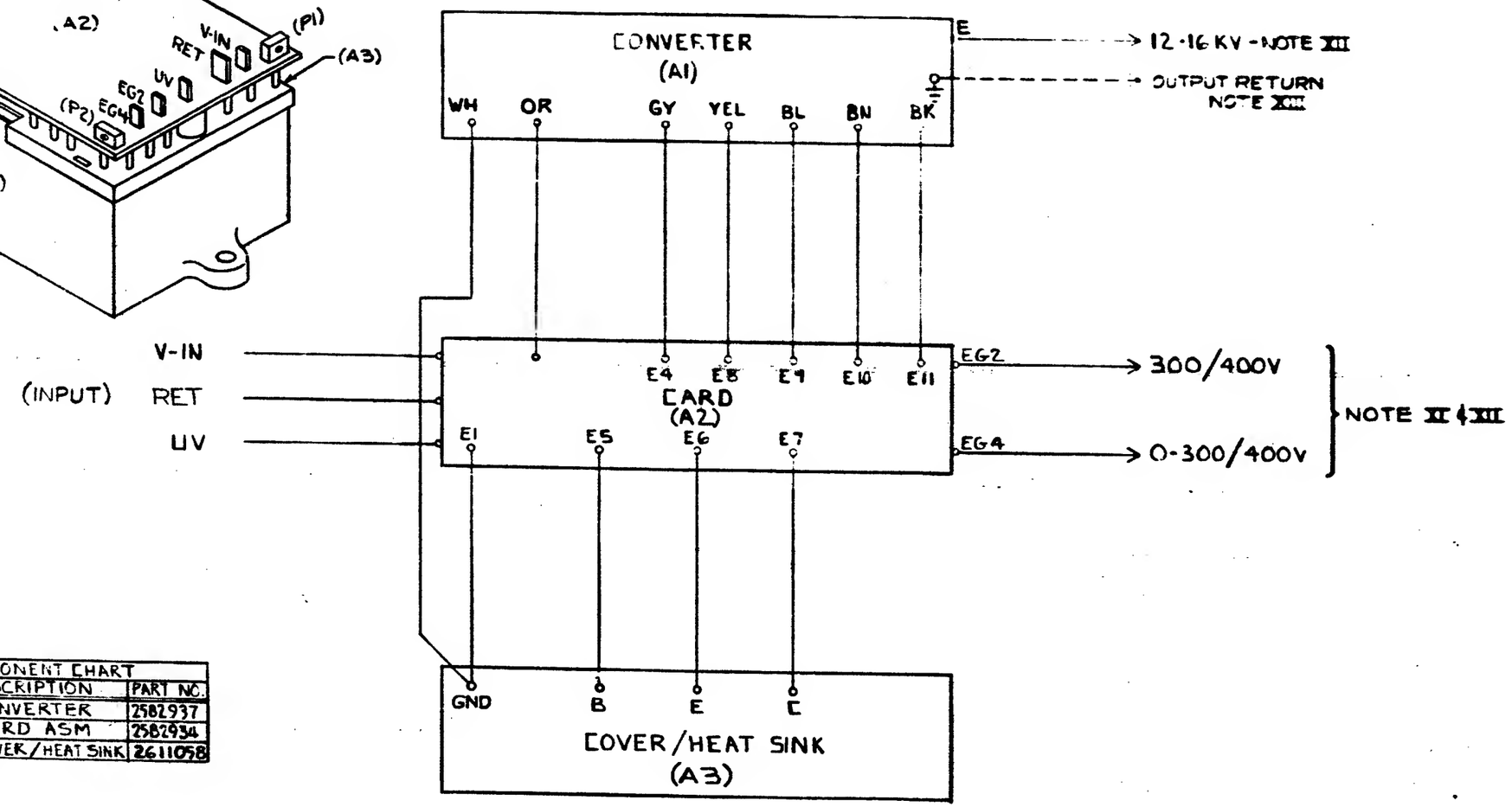
YA013

YFG72
ML-J

12-16 KV/300-400 VOLT POWER SUPPLY

REFERENCE DWG





COMPONENT CHART		
CODE	DESCRIPTION	PART NO.
A1	CONVERTER	2582937
A2	CARD ASM	2582934
A3	COVER/HEAT SINK	2611058

NOTE:

X THIS SUPPLY IS NOT TO BE REPAIRED IN THE FIELD

XI EXTERNAL SUPPRESSION NETWORKS MUST BE PROVIDED BY USER TO PREVENT SUPPLY DAMAGE IN CASE OF THE LOAD (CRT) ARCING BETWEEN THE HIGH & LOW VOLTAGE LEVELS

XII P1-HIGH VOLTAGE ADJUSTMENT (12-16KV) - DO NOT FIELD AJUST.
P2-EG4 VOLTAGE ADJUSTMENT (0-300/400V) - FOCUS ADJUSTMENT.

XIII OUTPUT RETURN PATH IS THRU CHASSIS OF SUPPLY. CONVERTER CASE MUST BE GROUNDED

RELEASED FOR ASM 2611025 (REF.)

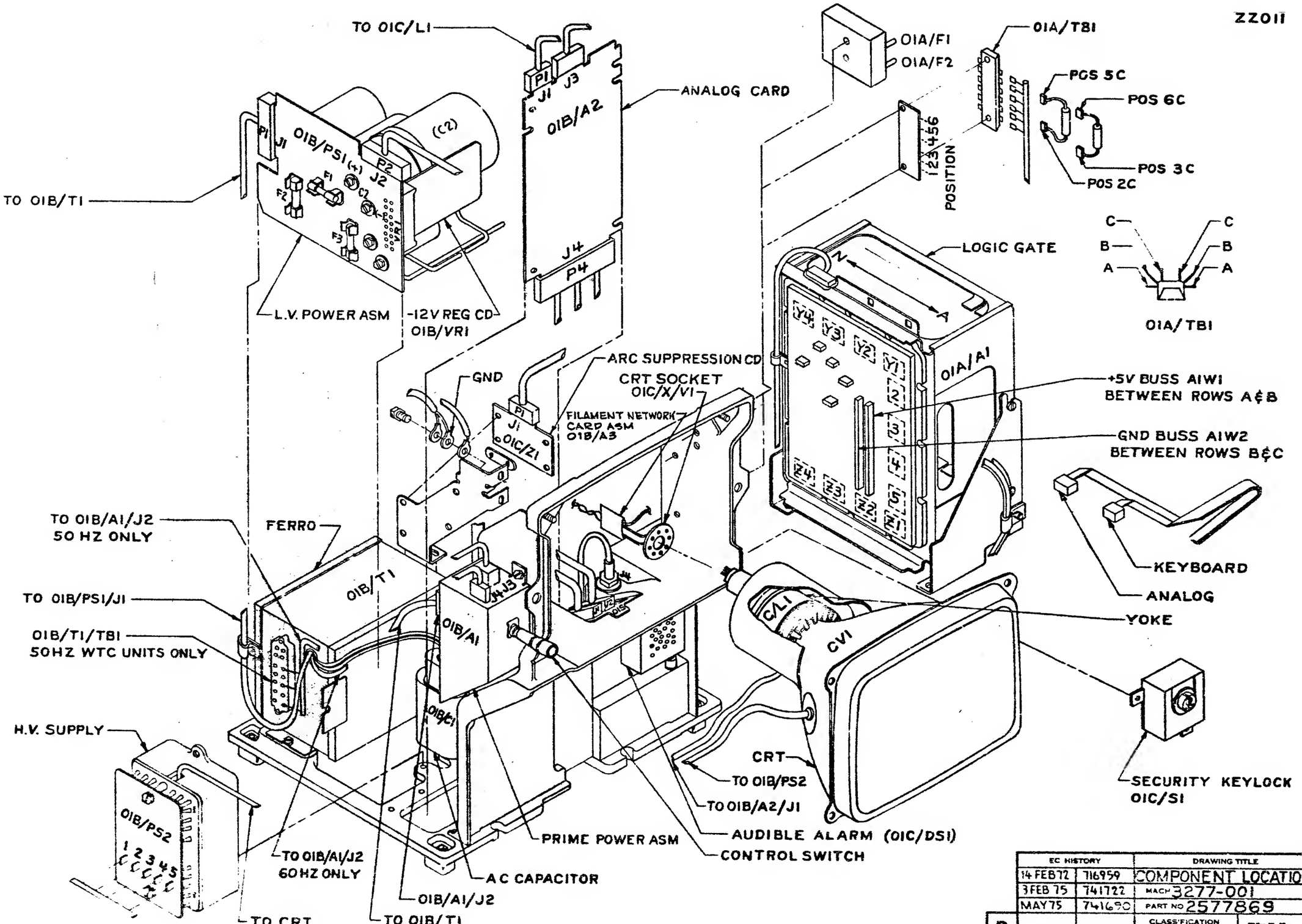
SEE EC HISTORY		DRAWING TITLE
3 OCT 72	718306	SYSTEMS DIAGRAM
29 OCT 72	718307	MACH
11 JAN 73	738051	PART NO 2611043
		CLASSIFICATION 0-1046

D

IBM CORP

YFG72

ZZ011

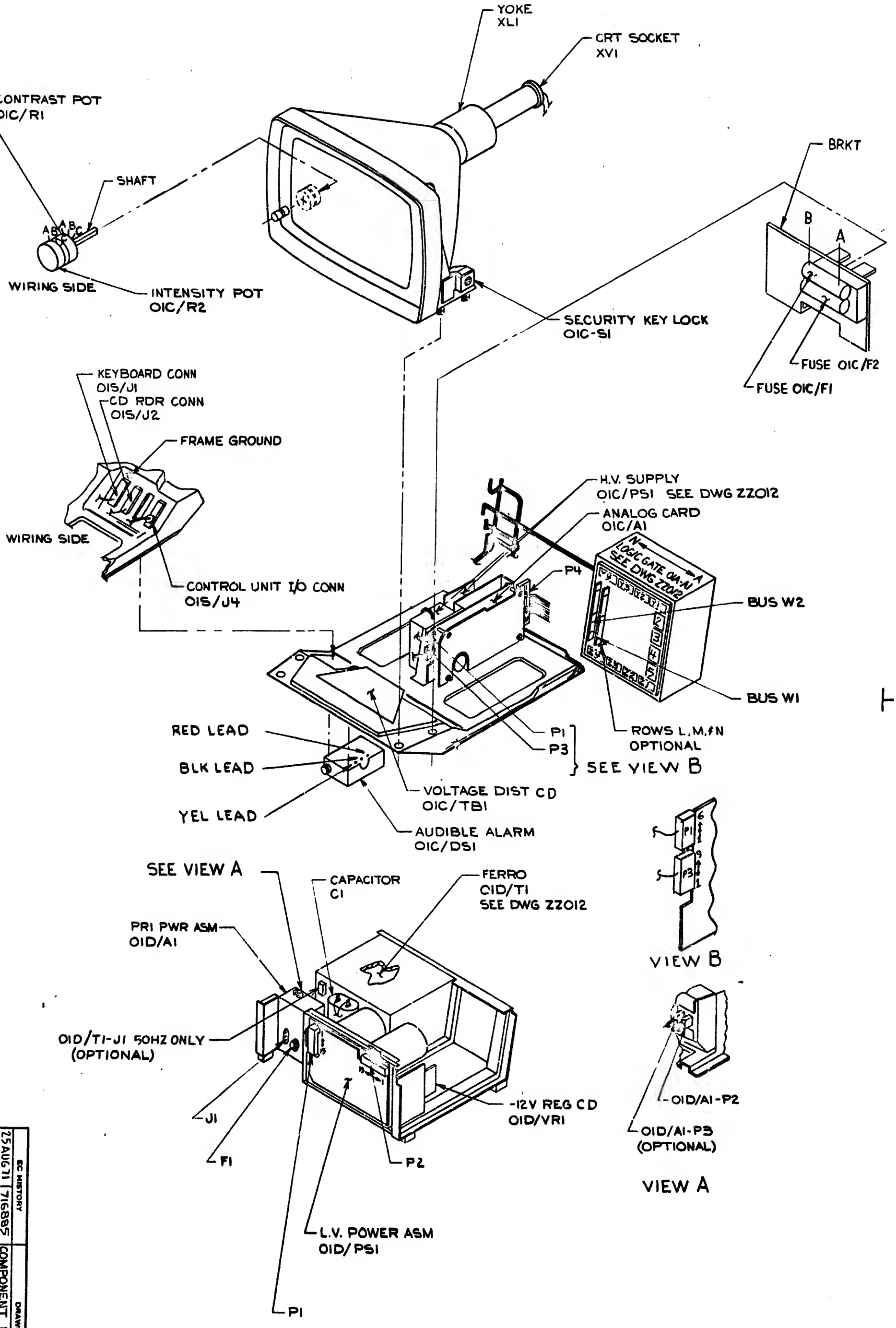


EC HISTORY		DRAWING TITLE
14 FEB 72	716959	COMPONENT LOCATION
3 FEB 75	741722	MACH 3277-001
MAY 75	741690	PART NO 2577869
		CLASSIFICATION

D

IBM CORP

ZZ011

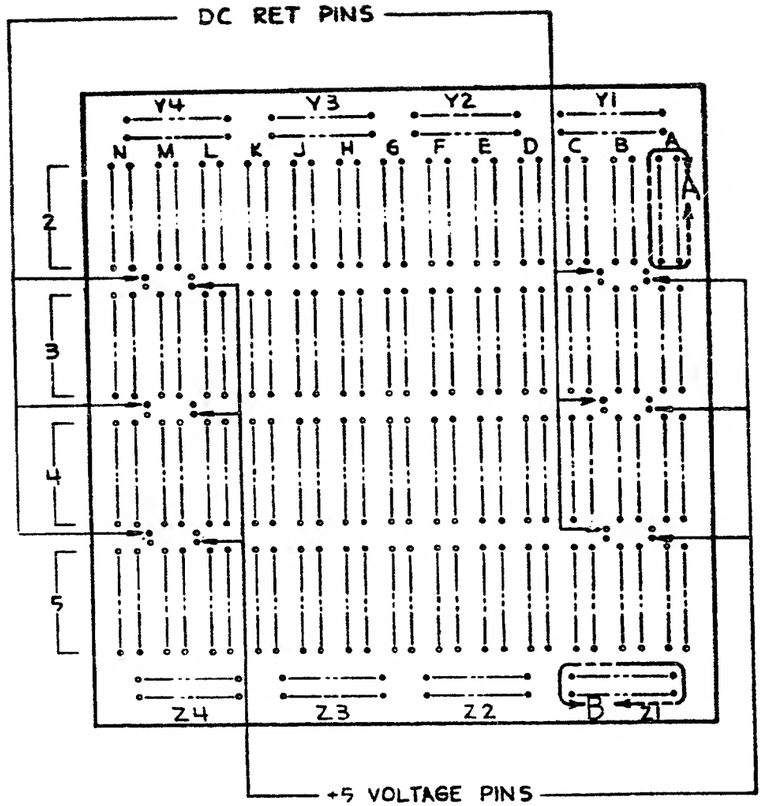


FOR 3277-002 ONLY

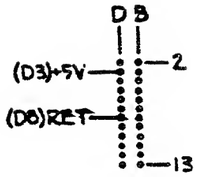
D				
			EC HISTORY	DRAWING TITLE
		25AUG71	716885	COMPONENT LOCATION
		29DEC71	717142	MACH 3277-002
		23OCT72	718383	PART NO 2564995
		3FEB75	741722	CLASSIFICATION
				IBM CORP

ZZ011

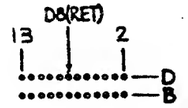
--ONN



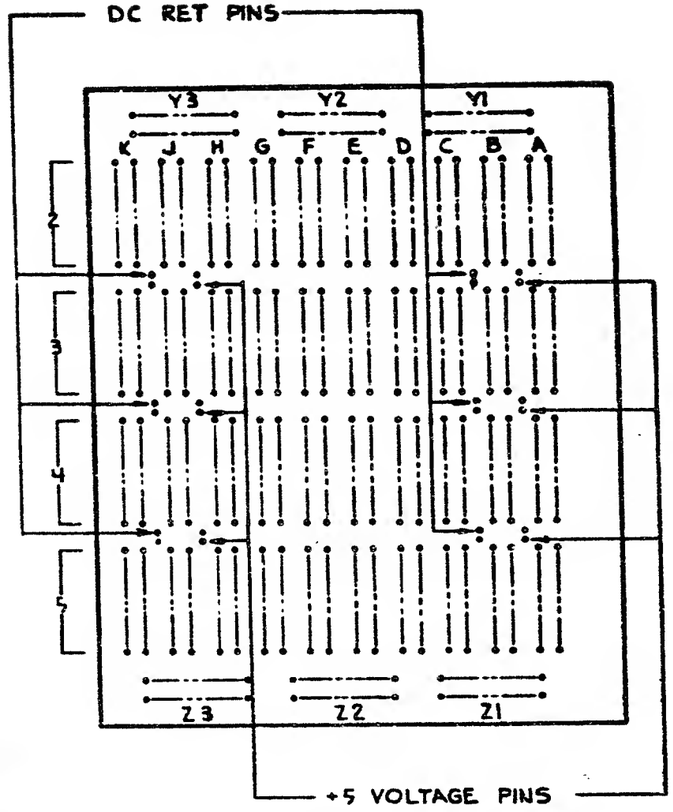
2/3 BD PIN SIDE LAYOUT



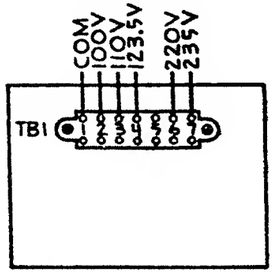
DETAIL A
VERTICAL SOCKET
TYP PIN LAYOUT



DETAIL B
HORZONAL SOCKET
TYP PIN LAYOUT

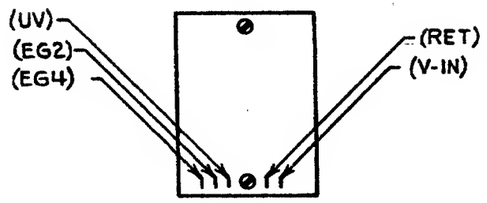


1/2 BD PIN SIDE LAYOUT



50 HZ FERRO

SEE ZZ 011



H V SUPPLY
(CABLE SIDE)
SEE ZZ011

EC HISTORY		DRAWING TITLE
25AUG71	716885	COMPONENT LOCATION
29 DEC 71	717142	MACH 3275 #3277
7 AUG 72	715098	PART NO 2564993
		CLASSIFICATION

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TABLE 1
CHARACTER GENERATOR CARD

THE FOLLOWING LIST DESCRIBES THE PART NUMBER CARD TO BE IN THE A-A1 K2 CARD SOCKET DEPENDING ON THE FEATURE OR RPQ REQUIRED:

MACHINE TYPE	LANGUAGE	CARD TYPE	LATEST P/N (852)	EQUIVALENT P/N (852)
MOD I MONO CASE	U.S. ENGLISH	9058	4302	0576
	USAC II A	9103	4305	0584
	USAC II B	9104	4306	0585
	U.K. ENGLISH	9102	4304	0583
	GERMAN	9101	4303	0582
	SWD/FIN	W068	4307	1455
	NOR/DEN	W069	4308	1456
	SPANISH	W070	4309	1457
	PORT/BRAZIL	W072	4311	1459
MOD II MONO CASE	U.S. ENGLISH	9070	4289	0577
	USAC II A	9098	4292	0580
	USAC II B	9099	4293	0581
	U.K. ENGLISH	9097	4291	0579
	GERMAN	9096	4290	0578
	SWD/FIN	W075	4294	1462
	NOR/DEN	W076	4295	1463
	SPANISH	W077	4296	1464
	PORT/BRAZIL	W079	4298	1466
MOD I & II DUAL CASE	U.S ENGLISH	4710	1708	———
	U.K.ENGLISH	4711	1709	———
	KATA KANA	9123	1707	———
	AUS/GER	4712	1710	———
	BEL/FRANCE	4713	1711	———
	DEN/NOR	X415	1854	———
	FIN/SWD	X416	1855	———
	ITALY	X417	1858	———
	SPANISH	X418	1859	———
	PORT/BRAZIL	X419	1857	———

TABLE 2
INTERCHANGEABLE CARDS

THE FOLLOWING CARDS CAN BE USED INTERCHANGEABLY ONLY THE LATEST P/N IS SHOWN IN THE LOGIC. THESE CARDS ARE IDENTICAL IN LOGIC

TYPE NO.	LATEST P/N	EQUIVALENT P/N	EQUIVALENT P/N	
9067	8522836	8522014	———	NOTE [1]
9068	8523664	8522151	8522109	NOTES [1] & [2]
L514	8527302	8522013		NOTE [1]
9069	8524282	8522852	———	NOTE [1]
9069	———	8524282	8523647	NOTE [2]
9072	8527296	8522001	———	NOTE [1]
9072	8527296	8523633	8523616	NOTE [2]
9066	8523648	8521992	———	NOTE [1]
9071	8524604	8523649	———	NOTE [1]
9071	8524604	8523617	———	NOTE [1]
9071	8524604	8522825	8521981	NOTES [1] & [2]

TABLE 3
KEYBOARD FEATURE JUMPER

THE FOLLOWING LIST DESCRIBES THE JUMPERS REQUIRED ON THE A-A1 BOARD DEPENDING ON THE PARTICULAR KEYBOARD CONFIGURATION. THESE JUMPERS ARE NO.30 BLACK WIRE (P/N 811695)

FEATURE NAME	FEATURE B/M	JUMPER REQUIRED
KATAKANA LANG	2568804	ADD A2B06 TO A2D08 B4B13 TO B3D08
NUMERIC LOCK FOR: U.S. ENGLISH U.K. ENGLISH KATAKANA	2568694	ADD B4B12 TO B4D08 REMOVE (IF IN)- B5B03 TO B5D08
NUMERIC LOCK FOR: GERMAN FRENCH ITALIAN	2568696	ADD B4B12 TO B4D08 B5B03 TO B5D08

CARD READER FEATURE JUMPERS

[FEATURE NO. 4600 WITH 2706]
IF A CARD READER IS INSTALLED IN A MACHINE WITH THE KATAKANA LANGUAGE FEATURE, A JUMPER IS REQUIRED ON THE A-A1 BOARD BETWEEN N2D05 AND N3B05 USING NO. 30 BLACK WIRE (P/N 811695)

[FEATURE NO. 4600 IN ANY 3277 MACHINE]
IF A CARD READER IS INSTALLED IN ANY 3277 MACHINE, A RESISTOR ASM. P/N 2568741 IS REQUIRED ON THE A-A1 BOARD BETWEEN N2D03 AND N2J06

NOTES
[1] THE "LATEST" P/N IS INTERCHANGEABLE FOR THE "EQUIVALENT" P/N, BUT THE "EQUIVALENT" IS NOT INTERCHANGEABLE FOR THE "LATEST"
[2] EQUIVALENT PART NO. ARE INTERCHANGEABLE

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EC HISTORY		DRAWING TITLE
JUL74	740382	3277 MOD I & 2 FEATURE
JAN75	741246	MACH [illegible]
MAR75	741258	PART NO 15[illegible]041
D		CLASSIFICATION

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